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Dana fined \$125 million

The United States has settled environmental claims of the Environmental Protection Agency (EPA), the Department of Commerce, and the Department of the Interior, brought against chapter 11 debtors Dana Corporation and 40 affiliated companies (Dana), under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), Michael J. Garcia, the U.S. Attorney for the Southern District of New York and Ronald J. Tenpas, the Assistant Attorney General for the Justice Department's Environment and Natural Resources Division announced.

The United States' environmental claims will be allowed in the bankruptcy proceeding in the amount of \$125,670,252. An allowed claim is an uncontested claim that Dana is required to pay under its court-approved plan of reorganization, the terms of which govern creditor recoveries. Dana had filed an objection to the United States' environmental claims, which Dana will withdraw in connection with the settlement. The settlement resolves the government's environmental cleanup claims

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Construction and demolition debris recycling remains strong

by Brian R. Hook

A slowdown in construction spending nationally – mostly residential, but increasingly commercial – is hitting construction and demolition (C&D) recyclers. C&D volumes are expected to drop this year and next, says Michael Taylor, executive director of the National Demolition Association in Doylestown, Pennsylvania.

“There has been a slight drop in volumes as demolition activity has slowed,” Taylor says. While demolition is only half of the C&D acronym, demolition alone generates approximately 115 million tons of debris annually in North America.

Close to 70 percent of demolition debris is recycled, Taylor says.

Some of the biggest declines to hit C&D recycling in the United States are from construction. The U.S. Commerce Department reports that total construction spending slipped 0.4 percent in April from March to an annual rate of \$1.12 trillion.

Spending in the private sector for factories and offices rose 1.6 percent, offsetting residential construction, which fell 2.3 percent for the 26th consecutive monthly decrease.

Construction spending has not increased month-over-month since September. Total



PHOTO COURTESY OF THE NATIONAL DEMOLITION ASSOCIATION

A large part of construction and demolition recycling includes steel recycling.

spending in April was down 3.9 percent compared to April of last year.

The construction slowdown is not decreasing the number of C&D companies, Taylor says, noting that he is not seeing a decrease in member companies within the demolition industry. The association

has more than 1,100 members in North America.

C&D recyclers are also represented by the Construction Materials Recycling Association (CMRA) in Eola, Illinois. William Turley, executive director, says

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Freight space shortages to Asia continue

Container shipping lines in the Westbound Transpacific Stabilization Agreement (WTSA) say they are working closely with United States exporters to address continuing space and equipment shortages to Asia. But sorting out the complex operational and cost factors behind those shortages has left both carriers and shippers with difficult challenges.

A weak dollar and robust Asian demand for agricultural products, industrial raw materials, machinery, and other commodities, led to westbound

cargo growth of nearly 17% in 2007, with a further 12-13% growth forecast over 2008-09. Other factors have also fueled the explosion in containerized export cargo. For example, earlier this year, commodity demand in Asia and rising grain prices pushed up bulk vessel charter rates to historic levels, causing shippers to shift more grain exports from bulk ships to containers.

While eastbound traffic grew by less than 1% in 2007, the volume of loaded containers shipped from Asia was still

more than twice that of loaded United States exports. That imbalance means transpacific carriers must continue to scale their fleets, routing and schedules for the higher-volume Asia-United States “headhaul” segment, and the current soft inbound market does not justify adding new capacity, particularly given record fuel and other fixed operating costs.

Thus, United States exporters and their carriers find themselves squeezed by factors affecting both directions of the

Transpacific trade: A sharp increase in Asia demand for United States products, driven primarily by the weak United States dollar, along with a significant falloff in eastbound volumes as the United States economy has slowed, resulting in little to no new capacity entering the trade. Furthermore, vessels and equipment cannot easily be reallocated among trade lanes in a matter of weeks, given ship sequencing requirements, customer commitments in affected trades, vessel size and draft

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C&D debris

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he is also seeing new C&D recyclers enter the market despite the downturn in construction spending.

“We are seeing new companies bring mixed C&D operations online all the time, and that will continue into the foreseeable future” he says, adding that many of the manufacturers of equipment for sorting C&D report having a six-month backlog.

“We expect recycling to remain strong no matter what,” Turley says. Some areas of strength for C&D recyclers include infrastructure work and green building projects, which requires the material generated during construction projects to be recycled.

“We expect our industry, to some degree, to reflect what is happening in the construction industry,” Turley says. But he says it is hard to know C&D volumes for this year compared to last year because the numbers are not tracked on a regular basis.

Looking at C&D volumes in the solid waste industry provide somewhat of a proxy. Republic Services, Inc. in Fort Lauderdale, Florida, reports that C&D volumes relative to residential construction dropped 15 percent over the last 12 months.

“In most markets, the home construction business started getting soft in 2007,” says Will Flower, vice president of communications at Republic Services. He says that C&D volumes are now mostly flat, although there are some market variations.

“Despite the decrease, we have seen pricing remain stable,” Flower says.

Brian Butler, an analyst who covers the solid waste industry for Friedman Billings Ramsey & Co., Inc. in Arlington, Virginia, says that many investors quickly jumped to the conclusion that as national construction numbers declined, C&D rates would follow.

“However, in practice it appears the waste haulers, both public and private, have shown excellent discipline on C&D pricing,” he says. “While C&D rates are not moving up in most markets, there has not been a significant decline as many expected.”

Many of the public companies have parked or removed containers out of markets with significantly reduced C&D demand, Butler says. He says disposal

rates along with fuel costs have remained high, limiting the ability of private haulers to cut prices.

“Residential construction volumes are down 15 percent, but non-residential volumes have held up better,” he says. “Only recently are companies beginning to talk about weakness in the non-residential construction market.”

Butler says monthly construction spending from the U.S. Census Bureau provides a good barometer of what is happening with C&D volumes. In the first quarter of this year, 12-month residential construction spending was down 17 percent, while non-residential construction was up 15 percent. The net impact was a 2.2 percent decline.

Butler expects residential construction volumes to remain weak. But he says the rate of decline will slow in the second half of this year and be flat to positive next year. He also expects growth to slow this year in non-residential construction volumes.

Stewart Scharf, an analyst with Standard & Poor’s Corp. in New York, expects the downturn in C&D volumes at solid waste companies to continue through at least 2008 and probably into 2009, when volumes may stabilize and start to pick up somewhat.

“Although C&D volumes account for a relatively small percentage of total waste collection volumes, the downturn in the residential housing market continues to negatively impact C&D volumes,” he says. “Combined with soft economic conditions, organic volumes have been flat to down in single digits over the last few quarters.”

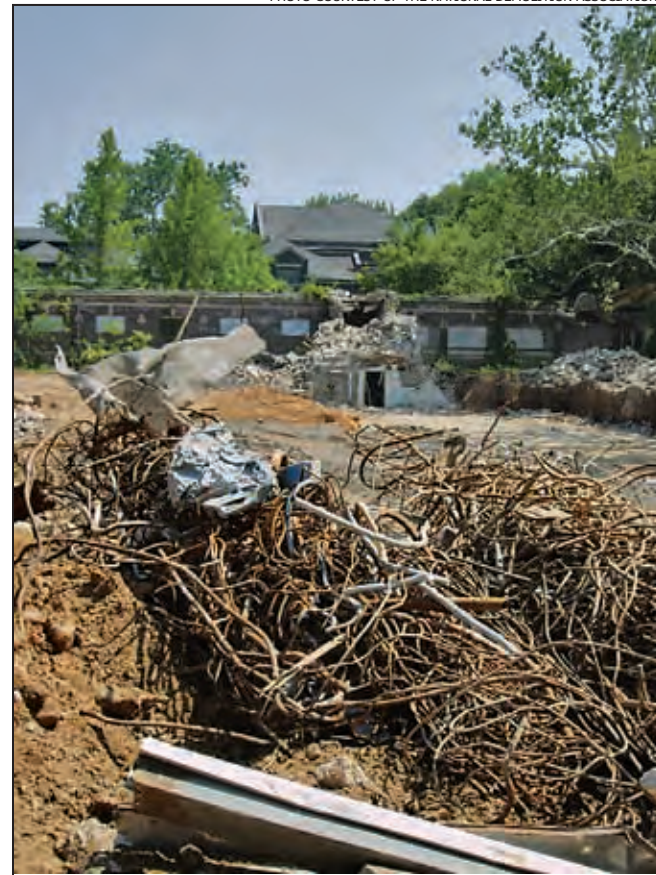
Scharf says the recovery in C&D volumes depend on the recovery in the housing market and the economy. S&P is forecasting a 34 percent drop in housing starts for 2008, versus a 26 percent decline in 2007. S&P predicts a 10.7 percent rebound in 2009.

While overall construction spending is probably the biggest impact on C&D debris volumes, government regulations play a significant role in the market.

“Some municipalities have begun restricting the disposal of C&D waste in landfills, requiring homebuilders to recycle a percentage of the debris,” Scharf says.

Do these types of regulations help C&D recyclers? Turley, with the Construction Materials Recycling Association, says that while C&D recyclers need further help

PHOTO COURTESY OF THE NATIONAL DEMOLITION ASSOCIATION



Demolition waste prior to sorting and processing.

developing new markets for C&D material, some regulations hurt more than help.

“We are seeing state environmental agencies directing and even requiring recycling of material, while a different department in the same agency has made restrictions so tight it is nearly not economically feasible to recycle,” he says.

A balance is needed between regulation and market development. The solution is to write a small percentage of C&D material into specification documents and promote the reuse of C&D debris, says Taylor, with the National Demolition Association.

“Don’t set up administrative barriers or economic disincentives for companies,” he says. “Push these materials to architects, engineers and purchasing managers.”



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Coleman makes portable propane tanks recyclable

Coleman's new Green Key® tool is the first step in making empty single-use propane cylinders recyclable.

With the introduction of this simple, industry-changing device, The Coleman Company, Inc. enables consumers to be sure their propane cylinders are completely empty before they are discarded along with regular household trash or recycled when and where recycling programs become available.

The green cylinders are familiar to campers all over the United States and just about anyone else who has used a portable, propane-powered cooking, heating or lighting device outside. However, unlike their large bulk tank cousins, these small single-use cylinders are not refillable (due to federal law prohibiting transportation of this type of cylinder if refilled), leaving some people uncertain about proper disposal or wishing the cylinders could be recycled.

The accepted practice for ensuring that a cylinder is empty has always been to use it on a stove, lantern or other propane-powered device until the propane runs out, at which time the appliance will stop working. However, after that, to be certain that there is no propane left in the cylinder, individuals now can go a step further by inserting the Green Key tool into the top of the cylinder, where it will remain permanently lodged. After two minutes, they can then discard or recycle the steel cylinder, confident in knowing that the presence of the bright green device indicates the cylinder is open and empty.

Along with introducing the Green Key tool to consumers, Coleman is inviting communities in the United States and Canada to integrate empty single-use propane cylinders into curbside and drop-off programs as part of steel can recycling. Coleman is providing technical information to waste haulers and recycling facilities on how to divert these empty cylinders from landfill to recycling.

"Coleman and other manufacturers combined produce millions of single-use propane cylinders annually, creating a tremendous opportunity for a new source of recycled steel," Neugebauer said. "We want propane cylinder recycling eventually to become as routine as steel can recycling."

"Consumers also may be interested to know that Coleman's propane cylinders - like many other steel products on the market today - are made with an average minimum of 25 percent recycled content," Neugebauer said.

Beginning in May 2008, the Green Key tool will be packaged inside the cap of most Coleman-branded propane cylinders and will be available at REI, Dick's Sporting Goods and other select sporting goods retailers nationwide.

The Green Key tools will also be sold separately and can be purchased at select retailers and at www.coleman.com. These can be used with any existing Coleman propane cylinder.

Higher California container refund value lead to record recycling volume

Californians recycled a record 14.7 billion beverage containers in 2007, 1.5 billion more bottles and cans than in 2006, according to the state Department of Conservation (DOC).

As a result, the annual recycling rate for California Refund Value (CRV) aluminum, glass and plastic containers rose to 67 percent, up 7 percentage points from 2006.

"This is tremendous news for California and the environment," DOC director Bridgett Luther said. "By recycling a remarkable number of containers in 2007, it's clear that Californians are doing more than ever to conserve natural resources, provide valuable raw materials for new products, and reduce energy use and greenhouse gas emissions."

State Assembly member Loni Hancock (D-Berkeley), author of legislation that increased California Refund Value to a nickel for containers less than 24 ounces and a dime for containers 24 ounces and larger, called the added incentive a catalyst in giving California its highest beverage container recycling volume ever.

Recycling rates were up for all material types - aluminum rose to 79 percent in 2007 from 72 the previous

year; glass to 67 percent from 59; and plastic to 54 percent from 47. Sales of CRV beverages remained flat at 21.9 billion units in 2007, meaning the significant increase in recycling volume was achieved despite no increase in the number of containers available to recycle.

Most recycled aluminum and glass is used to manufacture new cans and bottles, resulting in significant energy savings when compared to the mining, transportation and processing required to make the products out of raw materials. Plastic bottles and petroleum products are turned into fiber for clothing and carpet, or pellets that can be manufactured into items such as packaging or landscape materials, often at significant energy savings.

Most beverages packaged in glass, aluminum and plastic, such as soft drinks, water, beer, sports drinks, juices and coffee and tea drinks, are included in the CRV program. Notable exceptions are milk, wine and distilled spirits.

All aspects of the state's beverage container recycling program are paid for with unclaimed refunds from discarded CRV beverage containers, at no cost to the state's general fund.

Columbus recycler gives old books new meaning

Book-Destruction.com, a division of The Grossman Group, Inc. in Columbus, Ohio, announced that through the first quarter of this year, Book-Destruction.com recycled over one hundred trailer loads of hardback books, soft back books, catalogs with or without spirals, directories and corporate reports in bound form. One hundred loads equals approximately 4.2 million pounds.

"We are capable of grinding these products without separating them into multiple categories of paper with or without non-paper contamination such as spirals, plastic inserts and bindings," said Steve Grossman, The Grossman Group president. "Our operations are totally mechanical, eliminating the element of human temptation of converting these items for resale, something the generators are desperately trying to be assured will not happen."

The majority of the books come from obsolete inventories of book printers, publishers, distributors, libraries, schools and multiple collection sites primarily throughout the Midwest. Book-Destruction.com receives books from all over the country, but most of the suppliers are within 1,000 miles of Columbus, or its partner operations in Tennessee and Wisconsin. Once recycled, the materials are then baled and shipped to paper mills, roofers or insulators to be converted into new products.

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Washington State strives to step up carpet recovery

Companies representing carpet and flooring manufacturing, carpet fiber production, flooring installation, recycling and sorting, waste management and economic development met with local solid waste agencies in Seattle to discuss the future of carpet recycling in the Pacific Northwest.

Organized by Seattle Public Utilities, with support by King County's LinkUp Program, and hosted by enterpriseSeattle, an economic development organization, the forum provided an opportunity to share information about current carpet collection, sorting and recycling, plans to increase carpet recycling, challenges, end-markets and the potential for establishing processing capacity in the region.

Efforts are already underway to decrease carpet waste. A Tacoma-based construction and demolition debris processing company, Recovery 1, a LinkUp alumni partner, segregates, bales and ships four carpet types to recycling facilities located elsewhere in the country.

Government purchasing programs are aware of opportunities to divert carpet from landfill. The State of Washington currently has a flooring contract, used by many local governments, that mandates carpet reclamation. The contract expires in June, and a new contract with the same reclamation provision is currently being pursued.

One of the biggest obstacles in carpet recycling in the western United States is that carpet manufacturers and carpet recycling facilities are located in

Georgia. Because of that distance, shipping adds to the cost of recycling carpet, making it more difficult to compete with non-recycled feedstocks.

Shirli Axelrod, of the City of Seattle's Resource Conservation Department, organized the carpet forum and is spearheading efforts to move carpet away from the waste stream. According to Axelrod, the next steps for the region's carpet recovery efforts involve supporting local infrastructure development; engaging parties from the building industry to local manufacturers who can influence the quality, quantity, and end use of carpet being removed; reviewing policies and solid waste rates; considering opportunities to create incentives and removing obstacles that hinder carpet recycling success.

"There is a lot of interest in possibly starting a processing plant here to enhance recovery," Axelrod said.

A national effort to increase carpet recycling has been in place since 2002, when the carpet industry joined with federal, state and local governments and other organizations to establish the Carpet America Recovery Effort (CARE), which is funded and administered by the carpet industry. A Memorandum of Understanding committed the group, which included the State of Washington, to a common goal of significantly decreasing the amount of post-consumer carpet in the nation's waste stream. The goal is to divert 40 percent of post-consumer carpet waste from landfills by 2012.

Glass recycling plant opens in Pennsylvania

After 21 months of effort by the Pennsylvania Recycling Markets Center (RMC), the RMC has coordinated the launch of a new recycled glass facility in Pennsylvania. At full production, this 6 million dollar project will create approximately 25 jobs while using 30,000 tons of recycled glass per year. Additionally, the advanced processing technology uses 75% less energy than conventional glass processing equipment.

LCL Industries, Inc., (LCL) located in Schuylkill County, will primarily use triple mix container glass, the color mixed fraction of clear, brown, and green glass that is a consequence of many recycling programs, to manufacture grit abrasives and potable water filtration media.

Critical to the project was financial support furnished by the Pennsylvania Department of Environmental Protection's Recycling Markets Infrastructure Development Grant, awarded in the amount of \$500,000 to LCL Industries, Inc.

To produce the grit abrasives and water filtration media, LCL will utilize Krysteline's glass processing implosion equipment. Krysteline, a European Company based in Wimborne Dorset, England, has patented a technology which implodes glass to size-reduce the material rather than traditional processes that pulverize, mill, or grind the glass.

This technology utilizes principles of implosion to shatter the glass. Typically, the resulting glass products are more geometrically uniform than recycled glass products produced from other traditional equipment.

LCL's keystone product will be expendable blast abrasives. Although many benefits exist in using recycled, sharp-free glass as a blasting abrasive, the primary benefits include 25% - 30% reduction in pneumatic blasting pressure when applying the abrasive material, which significantly reduces energy consumption during use; recycled glass abrasive does not cause silicosis as a breathing hazard unlike natural sands; recycled glass abrasive does not typically contain heavy metals similar to many mineral slags which are used domestically as blast abrasives.

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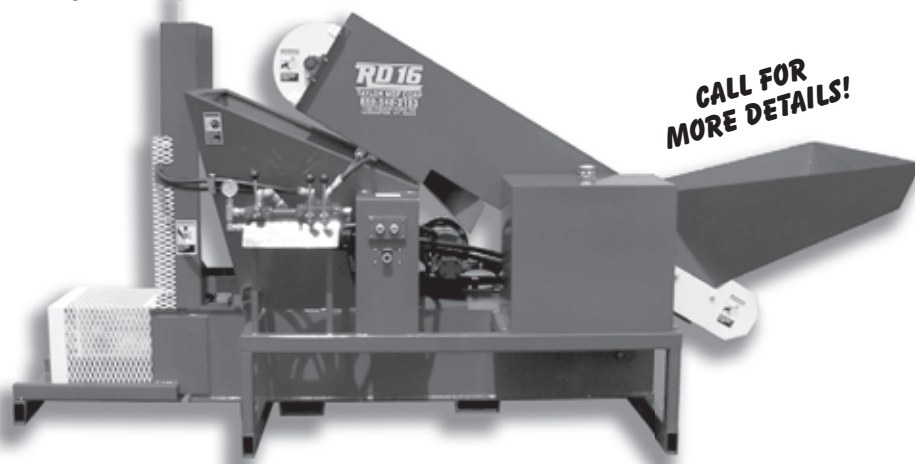
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Senate blocks renewable energy incentives and tax breaks

The Senate has now failed to pass two such bills

The United States Senate blocked more than \$50 billion in tax credits for renewable energy and research in June.

In a 50-44 vote, the Senate ended the debate and voted on two bills that would have revoked tax breaks for oil companies and extended tax credits to renewable energy businesses.

The first bill would have repealed tax breaks for major oil and gas companies, estimated at a value of \$17 billion over the next 10 years and suspend filling of the Strategic Petroleum Reserve through the end of 2008. The bill, the Consumer First Energy Act, would also have levied a 25 percent tax on "wind-fall profits" of major oil companies. The tax dollars generated would have been invested in the Energy Independence and Security Act Trust Fund. Companies

could avoid the tax by investing in renewable energy. This bill fell short by a vote of 51-43.

The Renewable Energy and Job Creation Act of 2008 was the second bill that the Senate failed to pass. This \$54 billion bill would have extended tax breaks for renewable energy set to expire at the end of 2008. The bill would have extended the investment tax credit for solar energy for six years; a three-year extension for biomass, geothermal, hydropower, landfill gas, and solid waste; and a one-year extension of the tax credit for wind energy.

Funding for the tax credits would have come from closing loopholes for hedge fund managers and multinational corporations.

Mississippi State University's biodiesel research funded

The United States Environmental Protection Agency (EPA) awarded \$200,000 to Mississippi State University (MSU) for research to transform waste water treatment plant sludge into biodiesel. Funds from the grant, presented by EPA regional administrator Jimmy Palmer, will build upon the research that MSU is conducting in the field of renewable, sustainable fuels for the future.

This research will be conducted as part of EPA's Office of Research and Development's Regionally Applied Research Effort program. In addition to the development of a new feedstock for biodiesel, the research effort is also expected to reduce the volume of sludge that has to be disposed of, thereby reducing the amount of pollution from runoff.

This project will address the availability of sufficient feedstock to produce bio-fuel economically and in an environmen-

tally friendly manner. This is a fundamental problem facing the production of renewable biofuels in large enough quantities to displace a large portion of the petroleum the nation now uses.

The project has the potential to convert waste water treatment facilities to fuel producing facilities – a truly renewable resource. The research team, led by Dr. Rafael Hernandez and Dr. Todd French, will conduct research into microorganisms to extract lipids, which are the fatty substances, from the sludge. It will then be converted into biodiesel. The research team also will evaluate the life cycle energy costs to determine the process' net energy and environmental effectiveness.

The grant is part of the Agency's Regionally Applied Research Effort program and will be administered through the Agency's Office of Research and Development.

Freight space

Continued from Page 1

restrictions, port and terminal capabilities, and other considerations. In addition, the Transpacific routes are competing for assets with trade lanes that are still growing and offer more attractive economic returns, such as Intra-Asia, Asia/Europe. This situation is likely to persist until there is an improvement in the economics of serving the United States trades.

"No one sets out to turn away business, but at this point carriers face hard choices with each sailing about how best to balance competing customer demands for limited vessel space and equipment. To say that carriers are not doing all they can to accommodate the maximum amount of export cargo their networks will handle is simply inaccurate," explained WTSA chairman Ronald D. Widdows, who is also CEO of Singapore-based container line APL Ltd. "Carriers are doing the best they can to work with their customers to satisfy their need for space under very difficult circumstances."

Widdows added that the westbound commodity mix of heavier cargoes – frozen poultry, metal scrap, forest prod-

ucts, steel or machinery, for example – reduce a ship's effective capacity, by reaching the weighted limit of the ship with fewer containers. Depending on the vessel involved and the cargo mix, a westbound sailing may load 35-50% fewer containers due to added weight. He acknowledged that, for the first time in over a decade, some United States exporters to Asia have experienced difficulty getting container equipment delivered to their premises for loading after having made a booking. The dramatic change in trade flows caught many shippers and carriers unprepared, Widdows said, necessitating some adjustment in cargo flow and equipment repositioning patterns within the United States.

Getting equipment to rural Midwest and Plains state grain exporters proved both difficult and costly, as inland rail and truck rates have increased on the order of 25-35%. Shipments of scrap metal and wastepaper, which has represented more than a quarter of the total export container market, have also surged, creating competition for vessel space with the higher demand for agricultural products and manufactured goods.

As vessel space has become suddenly scarce, some shippers have compounded

the problem with multiple bookings in an effort to assure equipment availability. "On the one hand, WTSA lines report customers on the phone with shipments ready to go, desperate for containers and space," Widdows explained. "On the other, they have phantom bookings with container and space reserved and cargo that never materializes." This adds significantly to carriers' challenges in matching vessel space and equipment with available loads. Most carriers' westbound sailings are now fully booked six to eight weeks in advance, he added.

A final complication is that the westbound and eastbound trade lanes are reverse images of one another in terms

of commodity and service characteristics. Eastbound equipment is typically unloaded at inland retail distribution centers that are nowhere near key agricultural and industrial load points for export traffic. Conversely, delivery points for United States produce, scrap metal, animal hides, chemicals and similar export shipments to Asia are often far from the Asian contract manufacturers of apparel, consumer electronics or toys awaiting that container for loading. The current surge in exports magnifies the logistical strains caused by these differences in the inbound and outbound trades.



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Public policy drives C&D handling

by Irwin Rapoport

As is the case with its counterparts, Casella Waste System, Inc. has facilities that process construction and demolition (C&D) debris such as wood, concrete, asphalt and other standard materials.

With wood in demand for the generation of biomass and concrete for road building aggregate, Casella vice president, Joe Fusco says that public policy, such as state and federal regulations and legislation to purchase recycled materials for road construction, would benefit the C&D recycling industry.

“Public policy can be a powerful driver of markets and economies for certain materials as we have seen with your average household recyclables,” he says. “Certainly a lot of public policy that has encouraged recycling has gone a long way towards building a strong economic foundation underneath recycling programs; C&D recycling could see similar benefits.

“We’re not big on mandates, but certainly there is a role for government to play with smart public policy,” he adds. “We would be more interested in smart public policy with a strong economic and environmental foundation rather than just across the board requirements.”

Keeping certain materials out of landfills, says Fusco, goes beyond issues of reuse, especially in the case of C&D which produces bulky materials that in some cases municipal solid waste landfills are not as eager to accept.

“Some C&D material creates an odor problem – primarily, the hydrogen sulfide that comes out of materials such as drywall,” he says. It’s a really big challenge to manage a landfill with a lot of C&D material coming in, so you want as much possible to remove that material and find good reuses for it, whether that be in roadbeds or biofuels.”

Similar to rail yards, many landfills were located in areas away from residential populations. But as urban sprawl continues unabated, residential development is occurring next to landfills and rail yards and complaints by the new residents become public.

“It’s a challenge, it’s time consuming and it has neighborhood challenges,” says Fusco.

To Brad Guy, the president of the Building Materials Reuse Association, the Netherlands has set the bar on what a country can do to ensure the maximization of recycling and reusing C&D debris.

“They banned the disposal of C&D,” he says. “Everything has to be processed. They divert 90-95 percent of all their waste. In the United States, and the estimates vary, it is anywhere from 25 to 35 percent of C&D that is diverted from landfills. It could be 90 percent in the United States based on existing technologies and policies from other countries, but we would need to adopt these innovations in order to achieve this kind of rate.”

The Netherlands, Europe and Japan, says Guy, have higher recycling rates, due to the premium on land and the inability to export the material.

“In Japan they use incineration and they use C&D to create new land,” says Guy. “Incineration is a method that is the least favorable in the United States.”

Guy appreciates the 50 percent mandated diversion rate in California, and Massachusetts 2006 legislation that brought in a landfill ban for 5 major C&D materials – metals, clean wood, concrete, asphalt and brick.

“They are achieving a diversion rate that is much higher than the national average,” he says. “When I spoke to the people at the Massachusetts Department of Environmental Protection last December, just anecdotally, the comment was that these mandates were easier to implement because of the recycling infrastructure that had already developed over time.”

“But you do get into problems with other types of construction-related material and the infrastructure is pretty weak now in key materials. Examples include drywall and asphalt shingles,” he says. “On the new construction side, drywall is a big component of new construction waste and manufacturers such as U.S. Gypsum and others, if the material is properly handled and protected – dry and clean, it can be recycled that into new gypsum.

“Carpet is an example of a material that was historically difficult to recycle, however, there has been considerable leadership from the carpet manufacturing industry in the last 10 years to implement “take back” programs. In order to make this form of product stewardship work, they are designing products in such a way that they can apply multiple strategies including separating the fibers from the backing and recycling the entire product into new products.”

“How much of it might be recognizing the clear growth in the “green” building market such as with the LEED standard, or whether they see the need to manage their raw materials feedstock (petroleum-based) in light of oil-supply uncertainties, I’m not sure. The bottom line for many of these strategies is the potential for the considerable savings in energy and waste costs.”

Guy has no doubt that federal and state tax credits and incentives would help jumpstart the infrastructure for recycling C&D material.

“We sometimes have a negative reaction to legislation in United States, but it would be disingenuous to say that there is not plenty of legislation that encourages waste, and it can equally encourage resource conservation,” he says, “however, it’s pretty clear that you do need market development and legislation together. Many things that appear to be market driven, still have their roots in past legislation.”

“The benefits of diversion and recycling,” he says, “result in longer life spans for landfills (MSW and C&D), avoidance of hazardous materials being dumped in C&D landfills, items that are reused save energy, the creation of jobs in the recycling industry, and the generation of local and state revenue and taxes from recycling and collection operations.”

Dana liabilities

Continued from Page 1

with respect to six toxic waste sites, also known as Superfund sites, in five states. The settlement also resolves claims against Dana for related civil monetary penalties.

In May 2006, Dana, an auto parts manufacturer based in Toledo, Ohio, filed petitions under Chapter 11 of the Bankruptcy Code in the U.S. Bankruptcy Court for the Southern District of New York. The government then filed claims against Dana in the Bankruptcy Court seeking to recover past and future environmental cleanup costs with respect to six Superfund sites formerly owned or operated by Dana, and/or where Dana had disposed of hazardous waste. The government also filed a claim against Dana for natural resource damages at one of these sites. The government’s claims also sought civil monetary penalties under CERCLA and the Clean Water Act for violations at two manufacturing facilities formerly owned by Dana. Because the case presented significant issues of federal environmental law, on November 20, 2007, U.S. District Judge Shira A. Scheindlin granted the government’s motion to withdraw the government’s claims from the Bankruptcy Court, and assumed jurisdiction over all proceedings relating to the government’s claims.

The largest of the government’s environmental claims relates to the Cornell Dubilier Electronics, Inc. (CDE) Superfund Site, located in South Plainfield, New Jersey (CDE Site). The CDE Site consists of a 26-acre industrial facility and the surrounding area that has been contaminated as a result of releases of hazardous substances from the facility. The government charged that Dana was liable at the CDE Site based on its prior ownership of the real property and buildings at the CDE Site from 1936 to 1956.

According to the government’s Proof of Claim, during that time, Dana leased the property and buildings to CDE, an electronics manufacturer whose operations polluted the property. Specifically, the government charged that, as a result of CDE’s burying of hazardous

waste in large pits on the property, and pollution released from CDE’s manufacturing operations, the property and surrounding environment has been pervasively contaminated with polychlorinated biphenyls (PCBs) and other toxic substances. In addition, the government alleged that PCB contamination from CDE’s operations during Dana’s ownership caused injury to natural resources at the CDE Site. Dana has denied these allegations. For a number of years, EPA has been working to address the contamination at the CDE Site and the risk posed to the surrounding community.

Under the settlement for the CDE Site, the United States’ claim in the bankruptcy proceeding will be allowed in the amount of \$100,710,000. Of that total, \$97,590,000 will be allocated to EPA to cover past and future cleanup costs at the CDE Site. The remaining \$3,120,000 will be allocated to the Departments of Commerce and Interior for natural resource restoration and assessment.

Dana also agreed that the United States would receive an allowed claim in the bankruptcy totaling \$24,290,000 in settlement of EPA’s environmental claims relating to a Superfund site in Hastings, Nebraska (Hastings Site). Dana owned and operated an auto parts manufacturing facility at the Hastings Site from approximately 1978 to 2002. The government alleged that Dana used hazardous substances, such as tetrachloroethylene, in its manufacturing processes and that these hazardous substances were released into the environment during plant operations. Dana also denies these allegations.

In addition, Dana agreed that the United States would receive an allowed claim in the bankruptcy totaling approximately \$500,000 for response costs relating to four other Superfund sites located in Southington Connecticut; Claypool and Elkhart, Indiana; and Tremont City, Ohio. Dana further agreed that the United States would receive an allowed claim in the amount of \$169,000 to resolve violations of CERCLA and the Clean Water Act at two facilities formerly owned by Dana in Muskegon, Michigan, and Bellefontaine, Ohio.

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Casella pilots International diesel-electric hybrid waste vehicle

Fuel consumption is expected to drop by 30 to 40% for fleet

by Irwin Rapoport

Managing fuel costs was difficult for companies when oil was still fairly inexpensive. Now, with oil prices topping \$140 a barrel, managing fleet fuel consumption has become a bigger challenge than ever.

To meet this challenge, Casella Waste Systems, Inc., based in Rutland, Vermont, has implemented a new vehicle pilot program. Their new truck is an International DuraStar® diesel-electric hybrid. The vehicle, manufactured by Navistar, Inc., was put to work collecting organic waste in late May.

Casella, which has operations in 14 states, has a combined fleet of over 3,000 vehicles, and also owns several depots to house and service them. With a fleet of that size, the rising fuel costs can lead to a significant expense. This new pilot will allow Casella to judge the cost efficiency and environmental implications of integrating additional hybrid vehicles into their fleet.

According to Joe Fusco, a Casella vice president, "This is the first International vehicle placed in the waste industry. We expect the truck to reduce fuel

consumption by 30 to 40 percent and reduce greenhouse gas (GHG) emissions by 65 percent. We're exploring all kinds of propulsion technology because with fuel costs like they are, our big challenge has become finding a way to use less of something that we've always been able to use a lot of before. So we're also exploring liquid natural gas and biodiesel powered solutions."

He went on to say that, "For [Casella], the question we need to answer is, 'what is the right balance of operational costs versus maintenance challenges?' We implemented this pilot program 1) to see what makes the most sense environmentally, and 2) to see what makes the most economic sense for the company."

Several discussions were held before it was decided to allow Casella the opportunity to test the vehicle for waste collection.

"Navistar is always looking for new customers and markets opportunities, and [Casella] is always looking for ways to improve efficiency," says Fusco. "If the DuraStar works as an engine and has the good operational and maintenance profiles we expect, then it is certainly something we would be interested in expanding to other parts of the fleet."

While Casella plans on taking advantage of the federal and state grants available for the purchase of alternative fuel vehicles, according to Fusco, these are not the company's main incentive.



The move to a hybrid fleet would save thousands of dollars every year per truck. Other solutions under consideration include liquid natural gas and biodiesel.

"We're a charter member of the United States EPA's Climate Leaders program. We've pledged to decrease our GHG emissions company wide by 10 percent in the next five years. The addition of hybrid vehicles to our fleet would certainly allow us to meet that reduction goal."

John W. Casella, chairman and CEO of Casella, also stresses the company's environmental concerns. "This hybrid recycling truck is an important step forward in our commitment to reduce our GHG emissions, reduce our overall consumption of fossil fuels, and

insulate our business from the volatility of fuel costs. We continue to look for other applications to put hybrid vehicles into service to further reduce our environmental footprint and diesel fuel costs."

Jim Williams, Navistar's director of sales and distribution, expects that the pilot will yield positive results.

"This is just the beginning," he says. "With diesel prices at an all-time high, an average fuel economy improvement of 30 to 40 percent translates into thousands of dollars in savings per truck, per year."

New York City council overrides e-waste bill veto by mayor

New York City council, in May, overrode Mayor Michael Bloomberg's veto of a bill that mandated performance standards on manufacturers for electronic scrap recovery.



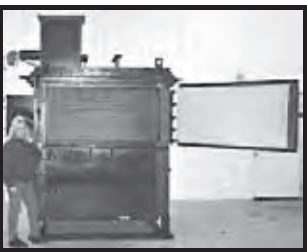

At issue is legislation that would require electronics manufacturers to recycle a set amount of their New York City waste or face fines. If the law takes effect, starting in 2012 the manufactur-

ers would have to recycle 25% of their products sold in the city or pay \$50,000 for every percentage point they miss the target.

Previously, the mayor vetoed the council's bill and signed a separate piece of legislation enacting portions of the council's electronics recycling program, though the law stops short of imposing fines.

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Recycler of the Year Award given to New Hampshire recycling center manager

The Northeast Resource Recovery Association (NRRRA) announced Scott Bradford as the 2008 Sami Izzo Recycler of the Year. His outstanding efforts and passion for recycling earned him this prestigious award.

In his seven plus years at the Peterborough Transfer Station, New Hampshire, Scott Bradford has been an integral part of the success of recycling within the town. Pamela Brenner, town administrator of Peterborough, stated in her nomination letter that under his management, the Recycling Center recycled 77% of its waste and produced revenue of \$242,346 in 2007.

“This revenue offset more than 70% of the operating budget, and as Scott quickly points out, the averted cost of landfilling this tonnage far exceeds our operating costs,” she wrote. “The closed landfill behind the recycling center is a constant reminder of how very expensive a landfill operation can be and how important for the future Scott’s basic philosophy is: reduce, reuse and recycle.”

The award is given annually to an individual who combines the qualities of commitment, creativity, leadership, enthusiasm and flexibility in developing and sustaining a sound solid waste management program.



Scott Bradford received the Recycler of the Year Award given by the Northeast Resource Recovery Association.

Alaskans praise Smurfit-Stone for litter prevention and recycling

Smurfit-Stone Container Corporation’s Anchorage, Alaska recycling plant recently received the 2007 Board of Directors’ Award from Alaskans for Litter Prevention and Recycling (ALPAR) in recognition of the plant’s outstanding service to the community.

ALPAR is a non-profit group dedicated to eliminating litter and increasing economically viable recycling in Alaska.

A key partner in ALPAR’s efforts, Smurfit-Stone received national recognition for its partnership with ALPAR and

its “Flying Cans” program, which also partners with regional airlines to enable rural communities in Alaska to send their aluminum cans to Anchorage for recycling.

Smurfit-Stone’s Anchorage Recycling Center is the largest full-service recycling plant in Alaska and processes approximately 2,000 tons of recyclables a month. The plant was named Smurfit-Stone’s 2007 Recycling Plant of the Year.

Light travels faster than sound. This explains why some people appear bright until you hear them speak.

Questar’s environmental management policy at Wyoming facility awarded

Questar received the 2008 “Oil, Gas and Geothermal Development Environmental Best Management Practices (BMP) Award” from the United States Department of the Interior, Bureau of Land Management (BLM) for its development and implementation of a Liquids Gathering System (LGS), multi-well pads and subsurface well heads on the Pinedale Anticline in Sublette County, Wyoming.

The award is given to the company that showcases the finest examples of responsible fluid mineral resource development on BLM-managed public lands, other Federal agency lands, Indian trust lands, or on Federal split estate lands where the surface is privately owned and the BLM manages the mineral estate.

The Questar LGS greatly reduces environmental impacts by decreasing trucking and human activity while also lowering emissions of nitrogen oxide (NOx), volatile organic compounds (VOC) and dust. The LGS is a closed loop system that gathers condensate (light oil) and produced water from multi-well pads, pipes these liquids to Central Gathering Facilities where they are further separated and then pipes the liquids to a refinery or to disposal.

Since installation of the LGS in November 2005, it has:

- Eliminated over 35,600 truck trips as of May 1, 2008;
- Minimized surface disturbance, providing significant wildlife habitat benefits;
- Eliminated all liquids storage tanks;
- Significantly lowered NOx emissions due to reduction in truck trips;
- Captured condensate vapor that would have previously been released to the atmosphere; and
- Consolidated production facilities, thereby requiring less surface disturbance.

“Energy companies are being challenged to develop innovative ways to lessen their impacts,” said Diana Hoff, Questar’s general manager for the Pinedale Division. “The LGS on the Pinedale Anticline demonstrates Questar’s responsible development practices as we work to meet the nation’s current and future energy demands while balancing wildlife, habitat, air quality and community.”

Hoff accepted the BLM BMP Award for Questar at the 2008 National Fluid Minerals Conference in Albuquerque, New Mexico.

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On the eve of Hillary Clinton’s announcement of support for Barack Obama, BuildASign.com saw an opportunity to seize on the Democratic Party’s excitement in finally having a presumptive presidential nominee as well as pro-

mote recycling on a grand scale. Sustainability is important to the dot com, which recycles over half of its internal waste and promotes energy conservation and green practices with its employees.

At the landing page, users will “vote” for their offer of choice, a free Obama sign with a Hillary sign return or 50% off an Obama sign for anyone and those who recycle their Hillary signs, and then choose from five Obama-themed sign designs.

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A Closer Look

by Donna Currie

North American Dismantling Co.

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Tim Seagraves, sales and marketing director of North American Dismantling Co. (NADC), started with the company in April of 2005.

Prior to working for NADC, Seagraves had worked as a manufacturer's rep in the automotive industry, but said, "I have always been fascinated with demolition." While some people might see only the destructive nature of the business, Seagraves sees it as a natural evolution. "The old must be removed to make way for the new," he said.

When he joined NADC, Seagraves saw a trend in America, going from "labor-intensive industrial" to "a new high-tech process." He compared this current shift to the industrial revolution in the 1700's and 1800's when mechanization replaced manual labor and many of the industrial districts were built.

"Some of these facilities, grandfathers and great grandfathers worked in there," he said of some of the buildings. But, like the industrial revolution that changed the landscape, the high tech revolution is making its changes. "They are coming back in a full circle," Seagraves said.

Even the demolition business has evolved. Seagraves pointed out that the company's logo is a wrecking ball, which is "pretty much obsolete, although we still sometimes use it."

Pummeling a building with a wrecking ball might be traditional – and dramatic – but it also runs the risk of throwing particulates into the air, including asbestos that might be found in old buildings. NADC prefers to "strategically take it down," with excavators equipped with shears and jaw-type concrete crushers that do the job better and cleaner. A mini-concrete crusher is also available to go on-site when needed.

The destination of the demolition material has also changed since wrecking balls were king – now, the metal is sorted and sent to scrap yards and mills; equipment like tanks, light fixtures, furniture and machinery may be salvaged and sold, and the un-recyclable debris is sent to state-approved landfills.

Rules and regulations have also evolved. Seagraves said, "We realize it is for a very good reason," and added that safety of both the workers and community is of paramount importance.

At the same time, Seagraves said that part of what makes the dismantling business so interesting is that each job is different, and each can have "hidden dangers" that must be addressed. Each project has an on-site job superintendent, and that superintendent knows that help "is only a phone call away," whether the help needed is more or different equipment, or more workers.

On 9/11, different sorts of phone calls were made when NADC joined the rescue efforts at the World Trade Center. At that time, a crew was working at a General Motors (GM) facility, and NADC asked GM if they could leave the GM job to help with rescue efforts. Without hesitation, GM said, "Go – this can wait."

NADC loaded up the equipment they had at GM, including a high-reach excavator, for the trip to New York. "You just drop everything and mobilize. You just make it happen," Seagraves said. Unlike most projects, where so much time is spent in preparation and planning, "We just needed to do what we needed to do."

While Seagraves is relatively new at NADC, he has seen significant growth in that short time. "It has been absolutely fascinating to observe," he said. The company, founded in 1984, has about 50 "core" employees, but can employ as many as 250 workers at one time.

As far as his own challenges, he said that as soon as a job is done, there has to be another one, and it's part of his job to find those projects. He said that Rick Marcicki, the company's owner, has told him, "When we've got work, we don't know who you are, but when we don't, you're the most popular one here." The best part of his job, he said, was that it "allows me the opportunity to interface with very different companies."

"NADC will never short-change a project," Seagraves said. "The more difficult the job is, the better the opportunities to get that job because we're not afraid to get the people and equipment." He said that if a piece of equipment is required and the company doesn't already own it, they will buy one or lease one for the job.

Seagraves said that the company's tagline is, "In pursuit of progress," but he almost feels a little embarrassed because along with that progress comes the need for the remnants of the industrial boom "to go out for the new high tech to come in." However, he sees the change as good and said that he believes that NADC is playing its part in "reshaping America and the world."



North American Dismantling Co. on location during a demolition job.

METALS

Missouri passes scrap metal theft legislation

Copper and metal thieves have ravaged Missouri homes, farms, businesses and public infrastructure and Missouri Governor Matt Blunt signed tough legislation to help law enforcement track them down.

"With copper and metal theft on the rise in our state, I asked the General Assembly to pass tough new laws aimed at putting a stop to this disturbing trend of copper and metal theft," Governor Blunt said. "These thieves are literally tearing apart people's homes, farms and businesses and selling off the pieces for scrap."

Senate Bill 1034 improves record keeping for the sale of metals to scrap dealers and others and will give law enforcement greater leads to protect Missourians from the growing problem of copper and metal theft.

The new law also prohibits scrap dealers from purchasing metal that can be identified as belonging to local governments without specific authorization including traffic signal boxes, street signs, manhole covers, guardrails and

bleacher seats removed from local parks. Scrap dealers are also prohibited from buying metal beer kegs unless they are sold by the brewer.

Copper and metal theft is on the rise across the nation and in Missouri. Driven by increasing costs for the metals, thieves are capitalizing on prices that are approximately five times what they were just four years ago. In Missouri, for example, two men from Independence are suspected of stealing more than 16,000 pounds of material from an Army munitions plant. An attentive scrap dealer helped put an end to this scheme.

This month, a Missouri university was targeted as thieves stole an estimated \$100,000 worth of copper from the construction site for a new dormitory at Lincoln University in Jefferson City.

Missouri homeowners have also been hurt. These criminals have gone home to home stripping copper wiring, pipes and tubing which in addition to costly damages, creates the risk of flooding, fires and the potential electrocution of those fixing the problem.

Evraz completes acquisition of IPSCO Canadian Assets

Evraz Group S.A. has completed the acquisition of IPSCO Inc.'s Canadian assets. To ensure consistency in the North American marketplace, Evraz also announced the company's various operations in the United States and Canada will operate under the name, Evraz, Inc. NA.

The new name impacts the headquarters in Portland, Oregon and all eight production facilities, including the steel production facilities in Pueblo Colorado, Regina Saskatchewan and Claymont Delaware; the seamless pipe, rod and rail mills in Colorado, the plate mills in Claymont, Regina and Portland, Oregon; the coil processing facility in Surrey, British Columbia; the structural tubing facility in Portland; the pipe mills in Portland and Regina; as well as the Alberta pipe mills in Red Deer, Calgary and Camrose.

Evraz, Inc. NA announced the senior management team:

Jim Clarke, vice president of Tubular Operations, is based in Regina and will oversee tubular operations in North America, including the Alberta pipe mills in Calgary, Red Deer and Camrose; as well as the Portland pipe mill.

Greg Maindonald, vice president and general manager, Evraz Regina Steel, will have overall responsibility for the Regina steelmaking operations.

Tubular sales will be based in Calgary and Portland. Sales of large diameter pipe will be headed up by Larry Lawrence, vice president of Tubular Sales, with Dave Coffin and Rodger Kemp.

Jim Mitchell, director of Oil Country Tubular Goods, will lead the sales group for medium and small diameter ERW pipe, with John Palazeti.

Scott Montross, vice president general manager, Evraz Oregon Steel, Portland, Oregon, joined the company in 2003 from National Steel. He is responsible for North American sales of plate, coil and HSS, as well as the plate and coil, heat treating and HSS operations in Portland.

Rob Simon, vice president, general manager, Evraz Rocky Mountain Steel, Colorado, heads up sales and operations.

Victor Clark, vice president, general manager, Evraz Claymont Steel, Claymont, Delaware, is responsible for the Claymont steelmaking and plate mill operations.

At the Portland headquarters; Robin Gantt, chief financial officer and treasurer, oversees finance, accounting, tax risk, information technology, and related legal matters company wide.

Jennifer Murray, vice president of administration and secretary, heads up corporate administration for North America.

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METALS

April steel imports up 15 percent from March numbers

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the United States imported a total of 2,944,000 net tons (NT) of steel in April 2008, including 2,194,000 NT of finished steel (up 15 and 4 percent, respectively, vs. March final data). Total and finished steel imports through the first four months of 2008 are down 7 and 9 percent, respectively, vs. the same period in 2007. However, the monthly average for finished steel imports in the most recent 3-month period (February-April 2008) is up 8 percent vs. monthly average in the previous 3 months (November 2007-January 2008). Total and finished

steel imports on an annualized basis are down 4 and 5 percent, respectively, vs. 2007. On an annualized basis, total imports of steel in 2008 would be 32 million NT.

Key products with large increases in April compared to the month before included: Ingots and Billets and Slabs (up 64%), Hot Rolled Sheets (up 40%), Reinforcing Bar (up 30%), Wire Rods (up 92%), Plates in Coil (up 33%) and Cold Finished Bar (up 32%). For the first four months of 2008, products showing increases vs. the same period in 2007 were Line Pipe (up 26%), Oil Country Goods (up 18%) and Heavy Structural Shapes (up 10%).

U.S. IMPORTS OF FINISHED STEEL MILL PRODUCTS BY COUNTRY OF ORIGIN
(Thousands of Net Tons)

	Prelim Apr 2008	Mar 2008	Apr 2007	Apr vs. Mar 2008 % Change	2008 Total vs. 2007 Total % Change
China	180	243	283	-25.7%	-39.2%
South Korea	211	159	174	33.1%	12.7%
Japan	169	144	139	17.2%	6.4%
Germany	146	81	110	79.0%	13.2%
India	70	115	85	-39.7%	41.6%
Turkey	142	30	16	368.4%	65.8%
Taiwan	42	64	87	-35.0%	-37.8%
Australia	47	31	2	52.3%	17.8%
All Others	1,187	1,245	1,326	-4.7%	-2.3%
Total	2,193	2,113	2,222	3.8%	-4.8%

Source: U.S. Dept. of Commerce, Bureau of the Census

Steel Dynamics/OmniSource acquires Recycle South

Steel Dynamics, Inc. announced that OmniSource Corporation, a wholly-owned subsidiary of Steel Dynamics, completed the acquisition of Recycle South, LLC, on June 10, 2008. Recycle South, one of the largest regional scrap metal recycling companies in the nation, is headquartered in Spartanburg, South Carolina.

OmniSource (which already owned 25 percent of Recycle South) acquired the remaining 75 percent equity interest for a purchase price of approximately \$515 million, comprised of 3,938,000 shares of Steel Dynamics common stock, valued at approximately \$140 million; cash of \$232

million; and the assumption of certain liabilities, including net debt of approximately \$143 million. This results in a total enterprise value of about \$640 million.

Recycle South employs 700 people in 22 locations.

The company will operate as a division of OmniSource Corporation, and will be called OmniSource Southeast. As part of OmniSource, all current management will remain in place and will continue to focus on ferrous and nonferrous scrap processing, brokerage, and the industrial scrap management needs of its customers.

Steel import permit applications decrease

Based on the Commerce Department's most recent Steel Import Monitoring and Analysis (SIMA) data, the American Iron and Steel Institute (AISI) reported that steel import permit applications for the month of May totaled 2,393,000 net tons (NT). This was a 20 percent decrease from the 2,988,000 permit tons recorded in April 2008, and a 19 percent decrease from the April preliminary imports total of 2,944,000 NT.

Import permit tonnage for finished steel in May was 1,916,000 NT, a decrease of 13 percent from the preliminary imports total of 2,194,000 NT in April. For the first five months of 2008 (including May SIMA and April preliminary), total steel imports were 13,058,000 NT, down 12 percent from the 14,772,000 NT imported in the first five months of 2007. Total steel imports

for 2008 would annualize at 31.3 million NT, 6 percent below the 2007 total.

For May 2008, the largest finished steel import permit applications for off-shore countries were for China (285,000 NT), Korea (184,000 NT), India (123,000 NT), Japan (113,000 NT) and Germany (77,000 NT). Finished steel import permit applications for China increased 58 percent in May compared to April preliminary imports and were the highest monthly total for 2008 so far. Product categories that increased in May vs. April preliminary include: Hot Dipped Galvanized Sheet & Strip (up percent 80), Oil Country Goods (up 26 percent), Heavy Structural Shapes (up 9 percent) and Tin Plate (up 37 percent). Significant products that showed a year-to-date increase vs. 2007 include: Oil Country Goods (up 18 percent) and Line Pipe (up 16 percent).

April steel shipments up 6.3 percent from last year

The American Iron and Steel Institute (AISI) reported that for the month of April 2008, United States steel mills shipped 9,403,000 net tons, a 6.3 percent increase from the 8,849,000 net tons shipped in April 2007 and a 2.7 percent increase from the 9,158,000 net tons shipped in the previous month, March 2008.

A year-to-year comparison of year-to-date shipments shows the following changes within major market classifications: service centers and distributors, up 4.4 percent; automotive, down 2.2 percent; construction and contractors' products, down 2.9 percent; and oil and gas, up 7.4 percent.

Severstal to acquire WCI Steel

Severstal announced that it has reached a binding agreement to purchase WCI Steel, based in Warren, Ohio.

According to the terms of the agreement, Severstal will acquire all outstanding equity of WCI for a total cash consideration of US\$140 million, implying an enterprise value of US\$331 million based on outstanding net debt as of April 30, 2008. The transaction is expected to be immediately accretive to earnings.

WCI's board of directors has recommended the transaction to its shareholders. Shareholders representing a majority

of WCI's diluted shares outstanding have consented to the transaction.

The acquisition has the support of the United Steel Workers (USW).

Together with Severstal's current United States operations in Dearborn, Michigan, Columbus, Mississippi, and the recently acquired Sparrows Point in Baltimore, Maryland, WCI will grow the Company's North American leadership in the high-quality flat-rolled steel segment for the automotive, appliance, furniture, construction and energy markets.

The acquisition is expected to close by early in third quarter of 2008.

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METALS

Police stop copper theft ring in South Carolina

Spartanburg, South Carolina, police arrested 13 people guilty of copper theft after a four month investigation.

More than 5 tons of metal was taken from residences and more than a dozen businesses, causing roughly \$586,000 in damage.

The charges filed include burglary, larceny, malicious injury to real property and possession of stolen goods.

According to investigators, the thieves netted only \$11,000 from metal recyclers.

An involved business owner stated he was surprised at what the criminals were willing to do to steal the copper.

"You wouldn't think they'd go to the extent of climbing on top of your plant and destroying a 20-ton air conditioning unit," said Donnie Griffin, the business owner.

Investigators reported that Mintz Scrap Iron and Metal bought a good amount of the copper. The owner is a Spartanburg County Councilman who said his business follows the law.

Cayman Islands accepted bids to purchase scrap metal

The government of the Cayman Islands sought tenders (bids) for the purchase of scrap metals accumulated by the Department of Environmental Health at the George Town Landfill for the Department of Environmental Health's (DEH) Solid Waste Unit.

Interested parties obtained Invitation to Bid documents from the Department of Environmental Health, Grand Cayman. The closing date for submission of bids was July 4, 2008.

The scrap metals have been separated as part of a program to divert them

from the other solid waste at the George Town Landfill and to increase the Cayman Island's recycling rate to ensure that recyclable materials are recycled.

The scrap metal piles cover approximately 3 acres with an average height of 13 feet. There are already approximately 4,000 tons of baled metals apart from the scrap metals.

A portion of the scrap metals has been partially sorted to separate the ferrous and non-ferrous components. There are also 2,000 (estimated) scrap vehicles on the site.

Nucor acquires Ambassador Steel

Nucor Corporation announced that its wholly owned subsidiary, Harris Steel, Inc., has signed a purchase agreement to acquire all of the issued and outstanding common shares of Ambassador Steel Corporation, based in Auburn, Indiana, for a cash purchase price of approximately \$185,000,000.

Completion of the acquisition is contingent upon receipt of regulatory approvals, satisfactory completion of due diligence, and fulfillment of other customary closing conditions. The transaction is expected to close during the third quarter of 2008.



Scrap Metals

MarketWatch



Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$320.00	\$275.00	\$444.00	\$360.00	\$764.00
#1 Bundles	per gross ton	320.00	275.00	435.00	349.00	636.00
Plate and Structural	per gross ton	318.00	268.00	430.00	389.00	493.00
#1 & 2 Mixed Steel	per gross ton	416.00	268.00	405.00	375.00	440.00
Shredder Bundles (tin)	per gross ton	312.00	245.00	347.00	335.00	289.00
Crushed Auto Bodies	per gross ton	313.00	240.00	300.00	318.00	290.00
Steel Turnings	per pound	—	160.00	280.00	220.00	346.00
#1 Copper	per pound	3.21	3.16	3.17	3.25	3.34
#2 Copper	per pound	3.05	3.01	2.89	3.10	3.24
Aluminum Cans	per pound	.69	.81	.87	.89	.90
Auto Radiators	per pound	1.83	1.86	1.88	1.67	2.04
Aluminum Core Radiators	per pound	.82	.72	.86	.66	.89
Heater Cores	per pound	1.60	1.30	1.89	1.27	1.42
Stainless Steel	per pound	.64	.80	.91	.81	.93

All prices are expressed in USD. Printed as a reader service only.

DISCLAIMER: American Recycler (AR) collects pricing and other information from experienced buyers, sellers and facilitators of scrap metal transactions throughout the industry. All figures are believed to be reliable and represent approximate pricing based on information obtained by AR (if applicable) prior to publication. Factors such as grades, quality, volumes and other considerations will invariably affect actual transaction prices. Figures shown may not be consistent with pricing for commodities associated with a futures market. While the objective is to provide credible information, there is always a chance for human error or unforeseen circumstances leading to error or omission. As such, AR is not responsible for the accuracy or completeness of the information provided, or for outcomes arising from use of this information. American Recycler disclaims any liability to any person or entity for loss or damage resulting from errors or omissions, including those resulting from negligence of AR, its employees, agents or other representatives.

METALS

Aleris appoints new leader of Aleris Americas

Aleris International, Inc. announced that Galdino Claro joined Aleris as executive vice president and CEO, Aleris Americas, reporting to Steven J. Demetriou, chairman and chief executive officer, on June 3, 2008. Claro will be responsible for all Aleris operations in the Americas.

Throughout his career in the metals industry, Claro has held key operational, marketing and product development roles with broad global responsibilities. Since September 2007, he served as president and chief executive officer of Heico Metal Processing Group, a \$2 billion conglomerate with operations in the United States, Canada and Europe.

Previously, Claro spent more than 20 years with Alcoa, Inc., ultimately serving as vice president, operations of Alcoa Global Packaging. In that capacity he oversaw the operations of 86 manufacturing facilities and eight research-and-development centers in the United States, Latin America and Europe.

As president of Alcoa China & Korea Holding Company from 2002 to 2005, Claro led significant strategic growth in the region and was responsible for eight joint ventures and wholly owned operations, including aluminum smelting, refining, rolling and hard alloys extrusions.

Prior to 2002, he served as president of Alcoa Europe Extrusions; managing director of Alcoa Northern European Extrusions; managing director of Alcoa Latin America's Cargo-Van Business Unit; and Marketing and Product Development director of Alcoa Latin America's Semi-Fabricated Products Division among other positions.

The boss always scheduled staff meetings for 4:30 on Friday afternoons. One employee finally got up the nerve to ask why. The boss explained, "It's the only time when none of you want to argue with me."

Faced with the threat of hurricanes, homeowners turn to steel for building

When asked what construction material they would prefer when framing their house if living in an area prone to hurricanes, 75 percent of United States homeowners prefer steel as their material of choice. That is a 6 percent increase from July 2007, showing a rise in consumer preference for steel.

The national consumer survey, conducted by the global research firm Harris Interactive, also found that 42 percent of consumers say that steel is the roofing material they would prefer. These findings indicate that consumers recognize the important role that steel plays in protecting their homes and families, especially in the face of a natural disaster such as a hurricane.

"Steel framing is an optimal framing choice in hurricane-prone areas because it can be designed to withstand hurricane-force winds and is protected from corrosion by a galvanized coating that can last hundreds of years," said Larry Williams, president of the Steel Framing Alliance (SFA).

"In addition, steel cannot be eaten by termites and does not burn. These benefits help to protect homeowners and their families."

Steel framing can be designed to resist damage by high winds, allowing the structure to stay intact, and today's steel roofing can withstand wind speeds up to 150 mph. In addition, steel framing does not contribute to the growth of mold and mildew. In the aftermath of a hurricane, flooding usually occurs, leaving homes susceptible to mold and mildew, which are known to pose health risks, especially to those with asthma and other respiratory ailments. Building with steel also helps preserve natural resources and creates less waste, because 100 percent of steel is recyclable and can be salvaged from the clean up debris.

The American Iron and Steel Institute (AISI) sponsored the hurricane-related questions in preparation for a 2008 Atlantic hurricane season that the National Oceanic and Atmospheric Administration (NOAA) predicts will be above normal.

The Atlantic Hurricane season began on June 1 and will run until November 30, during which time the NOAA Climate Prediction Center has forecast up to five major hurricanes, with August typically marking the beginning of the most active months of Atlantic weather.

Steel Dynamics' Busse is new AISI chairman

The Board of Directors of the American Iron and Steel Institute (AISI) have elected Keith E. Busse, chairman and chief executive officer, Steel Dynamics, Inc., to a one-year term as chairman of the Institute.

Busse succeeds Ward J. "Tim" Timken, Jr., chairman, The Timken Company, who served as chairman of AISI for the 2007-2008 term and who will serve this year as vice chairman of the Institute. The Board also elected to one-year terms as vice chairmen of the Institute the following: Regulo Salinas, vice president for business, Hylsa, S.A. de C.V., and James L. Wainscott, chairman, president and chief executive officer, AK Steel Corporation.

In his role as chairman, Busse will speak out on issues such as climate change and trade, representing the industry on those and other important public policy issues. He has previously served as vice chairman of AISI and as chairman of the Institute's Finance Committee.

Busse and his management team formed Steel Dynamics, Inc., a producer of flat-rolled carbon steels and shapes, in 1993. Prior to his role as chairman and CEO, Busse held the position of president and CEO.

Metal recycler penalized for air violations

The International Metals Reclamation Company, Inc. (INMETCO) has paid a \$55,000 penalty to the Department of Environmental Protection (DEP) to address past air emission violations from its metals reclamation facility in Ellwood City, Lawrence County.

The penalty was included in a consent order and agreement between DEP and the company, which is known as INMETCO, to settle outstanding particulate emission violations.

The agreement requires the company to install and test a baghouse, which will replace the current air pollution control device, to capture particulates. In addition, INMETCO will pay a monthly penalty of \$3,500 until it demonstrates it is meeting the permitted particulate emission limit.

Recognizing that the current control device was not operating effectively, INMETCO submitted an air plan application to DEP in October for the new bag-

house before the violations were identified. That plan was approved on March 28.

The \$55,000 penalty was deposited in the state's Clean Air Fund, which supports air quality improvement projects throughout Pennsylvania.

INMETCO recovers secondary material generated mainly by the stainless steel industry and recycles it for further industrial use. Additionally, INMETCO operates a nickel-cadmium battery and nickel metal hydride battery recycling program.



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C&D

ON TOPIC — Q & A

by Irwin Rapoport

Construction & Demolition

As the amount of construction and demolition waste being generated in the United States continues to increase, finding ways to successfully divert and recycle this material is becoming more crucial.

American Recycler recently interviewed James W. Taylor, Jr., the president of the Construction Materials Recycling Association and the president of New York-based Taylor Biomass Energy, LLC, for his take on the situation and the concerns that all stakeholders should be focusing on.



James W. Taylor

Is there a need for legislation to ensure the collection and recycling of C&D material and help build up the infrastructure?

Taylor: Approximately one half of C&D is conventionally recyclable. In some cases, approximately the remaining 50 percent is sorted, separated and ground up into alternative daily cover (ADC). Therefore, C&D recycling requires a participating landfill to receive this ADC product within a reasonable transport distance. In some cases a landfill views this as reducing materials that they normally would receive at a full tipping fee out of their checkbook. Reasonable legislation could prevent this from occurring.

With the need to reduce reliance upon imported energy, is enough being done to ensure the collection of C&D wood to be used to generate biomass?

Taylor: We are in new times in both waste recycling, energy and most importantly reducing our carbon footprint. Organics (biomass; wood, paper, fiber, food, leather, textiles) is one of the largest generators of greenhouse gas (methane, 23 times more than other gases) in a landfill scenario. The U.S. EPA must initiate steps to force state governments to focus on mandating this reduction.

Is enough being done by the Federal Highway Commission and state departments of transportation to ensure that recycled materials are being purchased for road construction?

Taylor: One of the biggest drawbacks at the present time is a standard specification for recycled construction products at the Federal level. The Federal specifications for recycled products and then mandate this specification on State and local governments, if they are using Federal funds to complete the project. This same action should include a timetable for increasing the recycling product content in construction materials according to percentage of units of measurement over the next twenty years; *i.e.*, within the next five years – material units of measurement; tons, cubic yards, should equate to 10 percent of the total tonnage for a particular item:

- Within five years thereafter; equate to 20 percent.
- Within five years thereafter; equate to 30 percent.
- Within five years thereafter; equate to 40 percent.

•Within five years thereafter; equate to 50 percent.

This concept would get us to 50 percent recycled materials, products within a 25-year period. This would be mandated if you wanted Federal funding for your project.

At the rate we are using our natural resources, especially in urban centers, we may be forced to this type of action even with no Federal requirements, simply due to financial costs.

What are the major challenges facing the C&D recycling industry?

Taylor: Recycling up until this date has been forced to compete against landfill and incinerator tipping fees. As a result, recycling has been a difficult business model to financially succeed.

Privately-owned business recyclers have not received the type of federal loans, grants and tax credits that its competitors have successfully obtained. Many legislators have offered to assist private recyclers but to this date, little has been accomplished. However, most recently, the cost of natural products with labor and transportation costs increased so dramatically, recycled products are finding their niche markets and private recyclers are fighting hard to succeed.

The amount of C&D waste per person that is being generated annually has been increasing. Is enough being done to ensure that it is being diverted away from landfills?

Taylor: The Federal government must initiate the mandate regarding organics (biomass) prohibited from entering landfills. Reduction of greenhouse gas is the challenge and this requirement will be financially paid for through the "carbon credit" market, which is just starting to unfold.

Some landfills are either refusing to accept C&D waste or charging a higher premium. How is this affecting the recycling rate of such materials?

Taylor: In the past landfills were able to justify the additional charge for C&D due to special handling. Today the demand for "organic biomass" as a fuel is changing all of the old philosophies and schools of thought. The energy world is now looking at biomass as a source of fuel. As the competitiveness increases, waste prices will come down as transportation costs increase.

Four of the nation's largest home builders penalized for storm water violations

Four of the nation's largest home builders have agreed to pay civil penalties totaling \$4.3 million to resolve alleged violations of the Clean Water Act, the Justice Department and United States Environmental Protection Agency (EPA) announced in June. The companies also have agreed to implement company-wide compliance programs that go beyond current regulatory requirements and put controls in place that will keep 1.2 billion pounds of sediment from polluting our nation's waterways each year.

The home builders are Centex Homes, based in Dallas, Texas; KB Home, based in Los Angeles, California; Pulte Homes, based in Bloomfield Hills, Michigan; and Richmond American Homes, based in Denver, Colorado. The four separate settlements resolve alleged violations of storm water run-off regulations at construction sites in 34 states and the District of Columbia. Each company will pay the following penalties:

Centex:	\$1,485,000
KB Home:	\$1,185,000
Pulte:	\$ 877,000
Richmond:	\$ 795,000

Pulte Homes has also agreed to complete a supplemental environmental project at a minimum cost of \$608,000. The project will reduce the amount of sediment going into a northern California watershed and improve the habitat for aquatic life.

Along with the federal government, seven state co-plaintiffs have joined the settlements. Those states are Colorado, Maryland, Virginia, Missouri, Nevada, Tennessee, and Utah. Each of the seven states will receive a portion of the penalties based on the number of sites located within that state.

Combined, the four builders accounted for more than 124,000 home

closings in 2006, and are ranked nationally among the top ten home builders in terms of home closings and revenues.

The government complaints allege a common pattern of violations that was discovered by reviewing documentation submitted by the companies and through federal and state site inspections. The alleged violations include not obtaining permits until after construction had begun or failing to obtain the required permits at all. At the sites that did have permits, violations included failure to prevent or minimize the discharge of pollutants, such as silt and debris, in storm water runoff.

The settlements require the companies to develop improved pollution prevention plans for each site, increase site inspections and promptly correct any problems that are detected. The companies must properly train construction managers and contractors, and are required to have trained staff at each construction site. They also must implement a management and internal reporting system to improve oversight of on-the-ground operations and submit annual reports to EPA.

The settlements are the latest in a series of enforcement actions to address storm water violations from construction sites around the country. A similar consent decree, reached in February with Home Depot, required the company to pay a fine of \$1.3 million and establish a comprehensive storm water compliance plan to prevent future violations.

The consent decrees, lodged in the U.S. District Court for the Eastern District of Virginia, are subject to a 30-day public comment period and approval by the federal court. The companies are required to pay the penalty within 30 days of the court's approval of the settlement.

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CONSTRUCTION & DEMOLITION

Green housing sees growing popularity

McGraw-Hill Construction presented the findings of its latest market research investigating “green” home building, focusing on changes in green building activity between 2001 and 2007; the impact of the down market on green home building; opinions and preferences of builders for green materials and processes, and triggers and obstacles affecting green building expansion.

The major findings of the survey, which is co-sponsored by the National Association of Home Builders (NAHB), include:

- The residential green building market is expected to be worth \$12 billion to \$20 billion (6% to 10% of the market) this year.

- In 5 years (2012), the market is expected to double to 12% to 20% market share, or \$40 billion to \$70 billion.

- 40% of builders think green building helps them market their homes in a down market.

- Quality has emerged in this down market as the most important reason for building green. Previously, builders were motivated by energy cost savings of green homes and doing the right thing, which still came in second this year.

“We have hit the tipping point for builders going green,” said Harvey M. Bernstein, McGraw-Hill Construction vice president of Industry Analytics, Alliances and Strategic Initiatives. “This year, the number of builders who are moderately green - those with 30% green projects - has surpassed those with a low share of green - those who are green in less than 15% of their projects. Next year, we will see even greater growth, with highly green builders - those with 60% green projects - surpassing those with a low share of green. This year has seen an 8% jump over last year, and we expect another 10% increase next year.”

C&D recycler opens facility in Florida

Marpan Recycling opened at the end of May in Tallahassee, Florida. The new facility is expected to lower landfill use by construction and demolition companies in the region.

Marpan estimates that 70 percent of all material brought to the facility will be recycled.

The owner, Kim Williams, said they put an estimated 2,000 tons through the facility during a 3-week testing run to fine-tune the system. The processing capacity is expected to be about 500 tons per day.

Marpan's facility is located on Woodville Highway in Tallahassee and can process a range of material types including steel, aluminum, glass, plastics, wood and various other building materials.

Pending green construction legislation in New Jersey raises legal questions

More than a dozen bills working their way through the New Jersey legislature aim to make green building the law of the land in the Garden State. But, codifying the fast-growing and, so far, entirely voluntary, trend toward eco-friendly buildings could lead to unforeseen consequences for all parties involved, warned James A. Kosch, an environmental attorney in LeClairRyan's Newark-based Tort Defense Group.

“When you have a flexible, voluntary standard and make it mandatory, you put both the government and the developer in a box,” he said.

“Government mandates are imperfect because they codify only a point in time. Meanwhile, economics, engineering and taste move on.”

Now under consideration by the legislature, the raft of bills would, among other things, require developers to offer solar power to residents of certain high-density housing developments; allow municipal planning boards to weigh the “greenness” of projects when deciding the fate of proposed master plans; and mandate that new state buildings and units of affordable housing be built to uniform green standards. Given today's

concerns about skyrocketing energy prices and global warming, Kosch said, such measures clearly are well-intentioned. But heavy-handed legislation, he argued, could raise costs and thus force developers to scuttle worthy projects, or stifle innovation by setting in stone government-favored approaches to the fast-evolving trend of green design.

Despite, or perhaps because of today's enthusiasm for all things green, lawmakers should think carefully about the law of unintended consequences. It also is incumbent upon developers and their attorneys, to question the claims of the green movement when doing the complex cost-benefit analysis required for any project. “The U.S. Green Building Council, for example, makes some very strong claims about the benefits of green building,” Kosch said. “Some are measurable-water use, energy, for example, but then the council also talks about ‘increased productivity’ and ‘better quality of life.’ These are in the eye of the beholder.”

In addition to the pending legislation, Kosch explored how the trend toward green building has created manifold challenges and unanswered ques-

tions for the legal profession. Standard real estate agreements, for example, do not spell out which party is liable for guaranteeing that a project wins a promised “gold” or “silver” rating by organizations like the U.S. Green Building Council, known for its LEED rating system. Should it be the architect? The construction manager? An environmental consultant?

Solar panels might work well at a project surrounded by low-rise buildings, he said, but what if the owner of a neighboring building wants to add a few floors and thus blot out the sun? “Do I need to get an air and light easement against my neighbor?” he asked. “If I'm generating excess electricity, what kind of energy sale agreements should I negotiate with the local utility?”

Indeed, Kosch summed up, the green building trend has brought with it a host of new questions related to insurance, water reuse, energy generation, tax credits, economic incentives and more. “We are at the very beginning of this. There is no standard language. Each deal must be looked at separately,” he advised.

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C&D

An expert explains the process of deconstruction

by Irwin Rapoport

As a nation, the United States should be taking proactive measures to promote the deconstruction and reuse of construction and demolition (C&D) debris, says Brad Guy, president of the Building Materials Reuse Association.

"Deconstruction is an on-site materials separation process," he says. "The process entails sorting each of the materials into its highest and best use, whether for reuse or recycling, and including careful management of any hazardous materials."

Because demolition contractors often work under tight deadlines, deconstruction is not always possible, but Guy says that municipalities can play a key role in developing and implementing education and outreach programs concerning C&D materials and deconstruction that can bring together industry and building owners.

He recently spoke with officials from San Francisco.

"They are planning an outreach and education program around C&D and reconstruction and reuse," says Guy. "They weren't necessarily talking about laws at this point, but more about what they could do as a local government. It is similar to the situation that the green building industry was experiencing a few years ago. The market is everybody – residential, commercial and institutional owners – people who are going to make the decisions related to buildings and if they don't know what the potential green strategies are, they may not know enough to ask what a contractor can do on a project."

"And if the contractor is equally unaware, they are not going to offer up these options," he adds. "That is where you have to break the barrier. There are many different incentives that can be brought in to change practices and unless contractors can see the benefits and know how to cover the costs associated with deconstruction, progress will be slow."

Guy says that having a comprehensive strategy will create a situation where demolition contractors will be able to sell materials for reuse to recycling centers, which can help expand their operations, and then consumers will know where they can purchase these materials, which results in the creation of sustainable markets."

He also suggests that cities consult major trade associations in the building industry such as the National Association of Home Builders, Associated General Contractors, and the National Association of the Remodeling Industry, as well as regional and municipal associations.

Because deconstruction can be costly and labor intensive, Guy believes that cities can help promote deconstruction by scheduling demolitions to give deconstruction companies time to



Brad Guy

access buildings and to help set up databases that would alert recyclers to the types of materials that will become available.

"The first thing is to identify all the materials and quantities expected from a project and to immediately seek potential markets for those materials because time is money and there will be less risk to implementing the project," he says. "In some locales there are demolition delays. Once the permit is applied for, there is an automatic delay placed on the project. This can create time to set-up the potential markets and to allow for the deconstruction to take place. In general, residential structures and small commercial buildings of predominantly wood construction are more manageable."

Taller structures, once demolished, allow for on-site recycling of concrete and masonry or quick transport to a processing facility. California, says Guy, has some innovative facilities set up for recycling to create aggregate.

"San Jose, California has a C&D debris deposit program where the contractor makes the deposit payment as part of the permit process," he says. "The deposit is returned based on the achievement of recycling rates documented by receipts from approved recycling facilities. It is not all or nothing – there is a sliding scale. Some communities have fines or misdemeanor penalties if the required recycling rate is not achieved."

While there are companies that specialize in stripping a building of materials such as windows, doors, cabinetry, lighting and plumbing fixtures and other architectural, Guy says there are not nearly enough of them compared to the potential.

"The core of our association is those groups that recover and sell reuse items such as windows, cabinets, doors, fixtures – literally everything that is attached to a building, even down to the flooring and framing," he says. "I have completely deconstructed three-story homes and recovered everything – except asphalt shingles and drywall and plaster. A strong niche industry in the United States and Canada is the re-milling of larger wood members from timber-sized structures such as churches, warehouses, and barns. This older-growth lumber often makes a very high quality remanufactured product such as flooring."

Continued on Page 19

C&D

National Demolition Association declares environmental stewardship as top priority

The National Demolition Association has identified environmental stewardship as one of its top priorities in the next decade. To communicate its stance on issues such as the recycling of demolition debris and the selective salvaging of materials from a structure for reuse, often called "deconstruction," the Association offers two White Papers free of charge that shed light on these complex issues.

The National Demolition Association makes the case for a successful government-industry partnership in achieving a substantial growth in the percent of demolition debris being recycled in the White Paper Demolition Industry Promotes C&D Recycling. Although demolition providers routinely reuse or recycle approximately 75% of the estimated 115 million tons of demolition debris generated annually, the Association would like to see that percentage increase. The White Paper outlines the current state of construction and demolition (C&D) recycling in the United

States and proposes the critical step of developing a National C&D Recycling Policy.

The report Demolition: The First Step of Reconstruction, the National Demolition Association explains the similarities and differences between a process called "deconstruction," and demolition. Deconstruction, also known as hand demolition, is nothing new to the demolition industry. It involves the methodical disassembly of structures to provide the highest possible rate of reuse and recovery. However, the realities facing most site owners include tight timelines, stringent financing schedules, and difficult security issues. The White Paper delves into the controversy, its impact on the safety of workers and the environment, and how modern demolition practices achieve an outstanding level of recycling and reuse.

Both papers are available from the National Demolition by calling 800-541-2412.

Deconstruction

Continued from Page 18

Communities that provide grants or loans to help establish businesses that specialize in deconstruction are essential because they allow the firms to set up in areas that are close to demolitions and consumers. The biggest capital hurdles are the initial establishment of the warehouses, processing facilities and retail outlets in order to make the product available to general public and construction trades markets."

Guy is hoping that with future construction, builders will be able to provide details on the types and quantities of materials that went into the structure – information that can be accessed when the building comes up for demolition.

"One concept already in place in the retail industry is a bar code or stamp that stays with the materials even after installation into the building. When it comes time to make a change, all the information about the material can be accessed prior to the renovation or demolition process even being planned or bid," he says. "While the industry is constantly adapting to information about the environmental impacts of materials and creation of more environmentally benign products, it must still consider how

buildings are assembled in less wasteful ways and in ways to make the disassembly process more economical and that the original material, even if made from recycled materials to being with, can continue to be recycled."

The downturn in the economy and the home mortgage crisis has added to the number of abandoned homes, especially in cities in the 'rust belt,' such as Pittsburgh, Cleveland and Detroit.

"In Cleveland, the city is trying to demolish 1,000 homes a year to remove abandoned, foreclosed and tax delinquent structures that place a high burden on the community," says Guy. "The lemonade from lemons is that this is an 'urban forest' of raw materials that can be harvested through recycling and reuse – a kind of ultimate local manufacturing base that can create economic benefits. Calculations of the total potential dollar value of 'produced' materials range in the many millions of dollars in places like New Orleans, Philadelphia and Cleveland. The National Recycling Coalition and the Northeast Recycling Council have both done economic benefit studies of reuse and recycling and found that the local economic multiplier effects of reuse and recycling are on par with manufacturing, which is higher than services and retail industries."

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AUTO

Alanis Morissette partners with Mercedes-Benz

Seven-time Grammy winning artist Alanis Morissette has partnered with Mercedes-Benz and its "Mixed Tape" online music magazine for "Underneath," the first video/single from her new album. Morissette, a strong supporter of environmental causes and organizations, chose the fuel-efficient Mercedes-Benz E320 BlueTEC for the music clip.



Morissette poses near the E320 BlueTEC which appears in her latest video.

In the video, which was shot in Los Angeles, Morissette is sitting at a bus stop wearing a "Save the Earth" t-shirt and distributing fliers to encourage concern for the environment. When a Mercedes-Benz E320 BlueTEC passes by, Morissette salutes the Mercedes driver in appreciation for their environmentally aware choice.

BlueTEC denotes state-of-the-art engine and exhaust technology which produces the cleanest diesels available on the market. Utilizing this technology, the V6-powered E320 BlueTEC diesel is able to provide the powerful torque of a large V8 engine with the low fuel consumption of a four-cylinder compact. This fall, the E320 BlueTEC sedan will be joined by a trio of Mercedes-Benz SUV's using this advanced powerplant, including ML320 BlueTEC SUV, the larger GL320 BlueTEC, and the versatile R320 BlueTEC.

Beyond their fuel efficiency, from an environmental standpoint, BlueTEC vehicles are the cleanest diesels available. Since diesels inherently burn less fuel than gasoline vehicles, they also produce significantly lower emissions of carbon dioxide (CO2). Also, in BlueTEC vehicles, particulate levels are reduced to levels comparable or better than that of gasoline-powered vehicles. Last year, the Mercedes-Benz E320 BlueTEC was named the "2007 World Green Car".

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AUTO

Time is up for choice of sustainable refrigerant

Automotive manufacturers are being urged to choose sustainable CO2 technology in their next generation air conditioning, thereby dropping tests of less efficient, potentially toxic and flammable chemicals.

Many questions remain unsolved concerning HFO 1234-yf, a chemical refrigerant for vehicle air conditioning jointly proposed by DuPont and Honeywell. This new substance is potentially toxic, with unknown decomposition effects in the atmosphere and poorer efficiency than current R-134a based systems.

In addition, the new chemical refrigerant is flammable. As shown by independent tests, in case of a vehicle front-end collision, the refrigerant could lead to an additional fire inside the passenger cabin.

"There is already a safe, sustainable, and global solution ready to be part of air conditioning systems today, namely CO2. We should proceed quickly to this transition, and avoid running the

additional safety and environmental risks posed by chemicals for the sake of short-term economic benefits," concludes Petter Neksa, from Norway's leading Energy Research.

However, chemical giants are strongly promoting the substance in a bid to delay for as long as possible, a decision by car manufacturers in favor of the natural refrigerant CO2.

"Marketed over years by chemical companies, CFCs, HCFCs and HFCs have proved devastating for the ozone layer and the world's climate. These companies now have a historic opportunity to avoid past mistakes and stop promoting a new chemical with unknown effects on the atmosphere. This new chemical is potentially toxic and will prolong unnecessarily the lifespan of highly polluting R-134a used today. At least 3% of the world's greenhouse gas emissions is at stake," says Wolfgang Lohbeck, Head of Special Projects at Greenpeace.

SALVAGING Millions

by Ron Sturgeon
Autosalvageconsultant.com

Who owns your company name? Part 2 of 2

Branding serves to influence a customer's perception. Doesn't Mrs. Butterworth's syrup just taste buttery and goood? If you bought a Betty Crocker cake mix, wouldn't you expect it to be moist and pleasing to the palate? That's branding.

Your company name is your brand. It is also your intellectual property. It's good to understand the value of your intellectual property. You sign your signature on checks and important documents. It identifies you as you. Your company name is the same. If someone is trying to mimic you in order to capitalize on your advertising/marketing budget or on your established name brand, you may have legal recourse.

It never hurts to register the company name you've chosen. That carries a lot of weight in a court case should someone challenge your ownership of the name.

A good friend of mine came into his family's salvage business as part of the fourth generation to manage the business. He asked his father if he'd ever registered the name they'd been using for 70 years. His father hadn't, and gave his son permission to do so. The brand name that preceding generations had established is now protected from others seeking to challenge the family's ownership of it. Proof of ownership of such a powerful brand name added considerable value when the family decided to sell their salvage company to Ford.

You work hard to establish an imprint in the collective consciousness of your customer base as well as in the public mind at large. It's your intellectual property. Preserve it. Protect it.

As you grow and add locations, it's a good idea to register your business name with the national trademark office. Trademarks are like patents. A proven history of use is important and necessary. The sooner you register your trademark, the better off you'll be in protecting your brand name. Don't wait until you're a millionaire. Do it early on; then when you achieve significant success, no one will be able to rock your boat—at least in regard to your trademark or brand name.

Remember, only you can make BUSINESS GREAT!

This article was provided by autosalvageconsultant.com which was formed in 2001 by recyclers for recyclers, to help them improve their businesses.

Pennsylvania DEP reaches agreement with salvage yard

The Department of Environmental Protection (DEP) said an agreement with J&K Salvage in Spring Garden Township, York County, will address local citizens' concerns about the noise emanating from the automobile- and metal-recycling facility.

Since October 24, J&K has reported 12 concussions at the salvage yard along Kings Mill Road. Local residents say the noise from the concussions is frequent, excessive and creates a disturbance.

Loud reverberations, which are not uncommon at salvage yards, can occur when vehicles are put through a shredder, which breaks up the material into small pieces for recycling.

The concussions are the result of combustible fluids, such as gasoline and propane, getting into the shredder and being ignited by the extremely high temperatures. The noises can also be caused by combustible vapor trapped inside fuel tanks.

DEP has determined that the concussions are not a danger to the public or to J&K employees because the shredder's design directs the force downward into a reinforced pit beneath the machinery.

To reduce the number of disturbances to the neighborhood, DEP has been working with the company to

devise ways to limit combustible fluid and vapor from entering the shredder.

In an amendment to the original agreement, J&K has agreed not to shred gas tanks at the site.

The company has also agreed:

- To remove gas tanks before shredding vehicles;

- To drain fluids properly from the tanks. The fluid will then be stored in approved containers with the fumes vented;

- To crush and ship the tanks off-site for further processing; and

- To accept only propane tanks or other compressed gas cylinders with the regulator valve already removed.

DEP and J&K signed an initial consent order and agreement on October 12 that required improvements to gas tank removal methods and on-site material storage.

Since then, DEP has conducted multiple inspections of the site and has found that J&K has been following the terms of the agreement, including reducing piles of accumulated material and adopting best management practices for assuring batteries, fuel tanks and fluids are removed from the vehicles before being crushed.

As part of the order, DEP fined the company \$12,000.

Ford test fleet of hybrid vehicles to use Johnson Controls-Saft batteries

A test fleet of Ford Escape plug-in hybrid electric vehicles (PHEVs) is being powered by lithium-ion batteries from Johnson Controls-Saft. The demonstration fleet will examine the future of PHEVs as part of a complete vehicle, home and grid energy system. The fleet is the result of an ongoing collaboration among Ford, Johnson Controls-Saft, Southern California Edison (SCE) and Electric Power Research Institute (EPRI).

"This fleet demonstrates a major step forward toward validating plug-in hybrid vehicle technology," said Mary Ann Wright, who leads the Johnson Controls-Saft joint venture and is vice president and general manager of Johnson Controls' hybrid battery business. "PHEVs, which have the ability to drive an extended range on electric-only power, can significantly reduce emissions and improve fuel economy."

The 20-vehicle fleet will be tested first in California by SCE and later by other utilities in the New York, New Jersey area, to help determine regional differences in vehicle usage and performance, as well as how PHEVs will affect the electric grid system and associated infrastructure requirements. The first unit was delivered to California in December; additional units will be on the road in June.

The outcome of the fleet will help to continue to address barriers to commercialization including cost, technology validation, and strategies for charging the vehicles.

The research and analysis of the demonstration fleet will include data from four primary areas: battery technology, vehicle systems, customer usage, and grid infrastructure.

The analysis will also explore possible stationary and secondary usages for advanced batteries.

AUTO

Canada launches auto scrappage program

Canada's Environment Minister, John Baird, was joined by the Clean Air Foundation to launch a National Vehicle Scrappage Program, which will offer incentives to people who retire their 1995 or older model vehicles.

This program will be fully operational by January 2009, and will encourage people to scrap their gas-guzzling vehicles and to turn to environmentally-friendly transportation. The incentives include: public transit passes; bicycles; a rebate on the purchase of a new car; membership in a car-sharing program; or \$300 cash.

The Government is providing \$92 million over four years to implement the program, which will be delivered by the Clean Air Foundation — a national not-for-profit organization that

runs the award-winning Car Heaven program.

Of the 18 million cars and trucks on Canada's roads, about five million were manufactured before 1996 (which is when new environmentally conscious standards were introduced). These pre-1996 models produce about 19 times more air pollutants than newer cars and trucks.

Until the program is fully up and running in January 2009, the Government of Canada is providing \$3.4 million funding to local vehicle scrappage programs across the country.

This will encourage Canadians to take action by rewarding them with incentives for retiring their old vehicles that will be part of the national program. These local scrappage programs will

have an opportunity to become part of the Clean Air Foundation's network for the delivery of the new program in 2009.

As part of the Government's commitment to high environmental standards, the program will also include a National Car Recycling Code of Practice. This tough code, currently being developed with the Automotive Recyclers of Canada will raise the standard of environmental care for vehicle recycling and apply to all participating recyclers.

The Automotive Recyclers of Canada (ARC) and its provincial associations have partnered with the Clean Air Foundation over the years to help deliver vehicle scrappage programs.

For additional information on the vehicle scrappage program, visit www.ec.gc.ca/VehicleScrappage.

Honda adds details on new small hybrid

Honda announced additional details regarding its new small hybrid scheduled for introduction in early 2009. An official name and full product details will be announced later this year.

In addition to weight reduction, a significant cost reduction in Integrated Motor Assist (IMA) components will result in the most affordable hybrid vehicle to date. This dedicated hybrid vehicle will be offered as a 5-door hatchback with seating for five passengers.

The new small gasoline/electric hybrid vehicle will have expected annual global sales of 200,000 units per year, approximately 100,000 of which are bound for the North American market.

Following this launch, Honda also plans to introduce another unique small hybrid vehicle based on the CR-Z sports car as well as a Fit hybrid model. Including the Civic Hybrid, these four hybrid vehicles are expected to reach combined annual global sales of approximately 500,000 units.

The new hybrid will be produced at a newly developed second IMA production line at Honda's Suzuka factory, which currently produces the Civic Hybrid. With the second line in operation and improvements in IMA production efficiency, hybrid production capacity at Suzuka will increase from 70,000 vehicles per year to approximately 250,000 units, with future expansion possible if needed.

EPA amends hazardous waste rule to promote use of aluminum

The United States Environmental Protection Agency (EPA) is amending the F019 hazardous waste listing to facilitate the use of aluminum in automobiles, light trucks and utility vehicles. This action will encourage motor vehicle manufacturers to use more aluminum parts, producing vehicles that are lighter. Lighter vehicles are capable of increased gas mileage and decreased exhaust air emissions.

F019 is one of EPA's F-code Resource Conservation and Recovery Act hazardous waste listings, which include waste that is generated from common

industrial and manufacturing processes. The amendment excludes from hazardous waste regulation F019 waste generated in the auto manufacturing industry provided the waste: 1) is not placed outside on the land prior to shipment to a landfill for disposal; and 2) is disposed of at an appropriately lined landfill. EPA has determined that these changes to the F019 listing are protective of human health and the environment. The final rule should be published sometime in June.

For more details, visit www.epa.gov/epaoswer/hazwaste/id/f019/f019.htm.

AA Midwest opens recycling facility

AA Midwest, a division of AAEQ Manufacturers and Recyclers, recently opened its new automotive recycling facility in Blue Island, Illinois. The facility significantly increases the capacity for AA Midwest to dismantle vehicles and export complete engine, drive train systems and body components to developing countries.

Located in the south suburbs of Chicago, the 80,000 sq.ft. facility allows AA Midwest to increase the number of vehicles processed from 40 to over 500 per month.



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ELECTRONICS

New e-waste legislation pending in various states

Manufacturers are to cover state costs for programs

At least 18 state legislatures, plus the city of New York, have considered electronics waste legislation this year. This is twice the number that considered it in the entire 2003-2007 period. So far, four states and New York City have passed e-waste laws, two passed less-extensive measures, two states seem close to passing laws, and five states have measures pending.

The laws generally hold electronics makers responsible for collection and disposal of their old products, requiring producers to set up programs to collect, handle and recycle their old products at reasonably convenient locations.

Manufacturers must register with state environmental agencies and pay registration fees to cover state costs to oversee collection and recycling programs.

The laws' ultimate penalty is a ban on retail sales of products by noncompliant manufacturers. Much of this year's legislative crop grew out of fear about the digital TV transition making millions of TVs obsolete, as well as concern that electronic discards in general will multiply dramatically in the next few years.

New Jersey, Oklahoma, Virginia, West Virginia and New York City passed e-waste laws, all taking effect in January except New York City, which takes effect the following July.

New Hampshire and New Mexico passed less-comprehensive bills.

Missouri and Illinois were poised to enact legislation, and Rhode Island, Massachusetts, North Carolina, and Vermont had bills pending. Legislation failed in Hawaii, Indiana, Wisconsin, Nebraska and New York.

Arizona electronics company fined for reporting violations

The United States Environmental Protection Agency reached a \$46,300 settlement with the Rockford Corporation of Tempe, Arizona for failing to submit toxic chemical reports, a violation of the Emergency Planning and Community Right-to-Know Act.

Rockford Corporation failed to submit timely, complete, and correct reports detailing the amounts of lead compounds processed at its facility from 2002 through 2004. Rockford Corporation, which manufactures circuit boards for car radios, self-disclosed their violations, but failed to satisfy EPA's Audit Policy.

"Facilities that process particularly toxic chemicals, such as lead compounds, must follow reporting rules to ensure area residents and emergency

response personnel are informed of possible chemical hazards locally," said Enrique Manzanilla, Communities and Ecosystems Division Director, for the EPA's Pacific Southwest region. "This penalty should remind others that we are maintaining a close watch over chemical reporting practices and are serious about enforcing community right-to-know laws."

Although the Rockford Corporation did not release lead compounds into the environment, it was required to report lead compound processing to the EPA because the facility was over the applicable reporting thresholds from 2002 through 2004. The company failed to submit reports to the agency in a timely manner for any of those years.

INTERNATIONAL

Defra releases municipal waste survey statistics for England

Defra has published the second provisional set of estimates from the Department's 2007/2008 survey of municipal waste in England.

The provisional results incorporate the second quarter of the financial year and are based on information supplied by local authorities to WasteDataFlow.

The data are provisional as not all returns have completed full validation and returns to WasteDataFlow can be revised by local authorities during the scheme year. Final figures will be released in November 2008.

To minimize the effects of seasonal fluctuations, comparisons are made between the year April 2006 to March 2007 and the year October 2006 to September 2007, *i.e.*, encompassing

the provisional results for the quarter July to September 2007.

Total municipal waste changed little in the year ended September 2007, decreasing from 29.1 million tons to 29.0 million tons, or 0.3%. A similar small decrease in total household waste was observed, from 25.8 to 25.7 million tons. Less waste was sent to landfill, decreasing from 16.9 to 16.1 million tons.

There was an increase in the household recycling rate, from the average rate of 30.9% between April 2006 and March 2007 to 33.2% between October 2006 and September 2007. The average residual household waste per head decreased from 353 kg per head between April 2006 and March 2007 to 340 kg per head between October 2006 and September 2007.

Tube City opens new offices in Singapore and Belgium

Tube City IMS, LLC announced that its Tube City Division has opened its first trading offices in Singapore, and Gent, Belgium, and has expanded its representative trading offices in Jakarta, Indonesia, and Beijing, China.

Hideyuki "Nishi" Nishizawa, who has been instrumental in orchestrating the Company's international trading growth in the Asia-Pacific region, has been promoted to managing director of Asia. He will be relocating from the United States, and will be responsible for developing, managing and expanding the Company's Asian trading operations from the newly-opened Singapore trading office.

Luke Fang and Abby Yao have joined the Company's growing Beijing

representative office as traders under the leadership of Steven Liu, chief representative.

Fajar Nafies has joined the expanding Jakarta representative office as a trader under the leadership of Iman Surachman, chief representative.

Alain Eeckman has joined the Company as managing director of Europe and will be responsible for developing, managing and expanding the Company's European trading operations from the newly-opened Belgium trading office. Eeckman has more than 15 years of experience in logistics and steel trading. Prior to joining the Company, he worked at Trade Arbed/Considar and Arcelor-Mittal.

UK electronics waste recycling market continues growing

The waste electronics recycling industry is growing in Europe and is mainly due to legislation; principally the WEEE (Waste Electrical and Electronic Equipment) and by the ROHS (Restriction on use of certain Hazardous Substances) directive, which represent the most important driver in this market. The WEEE Directive aims to increase the re-use, recycling and recovery of waste by limiting the amount of waste going to final disposal and providing an incentive for producers to design more environmentally-friendly electrical and electronic equipment through producer responsibility. This measure, along with

associated local legislation, has already had a strong impact on the fast increasing waste stream of electrical and electronic equipment across the EU.

With respect to impact, legislation, along with landfill site scarcity in certain countries, will be the most important driver for both prices and volumes in the waste recycling industry. Legislation is based on producer liability and includes a take-back obligation that aggressively supports recycling of major components. The impact of legislation as a key driver in this market is already visible in countries which have created strong local laws to supplement these EU policies.

Midwest Auto & Equipment

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'98 CAT IT28G 62,900 Low hours, this machine is in cherry condition! (932)	Terex TXL-200 \$69,500 (2) Excellent condition, American coupler system, A/C, Michelin radials, 770 hrs. & 1,650 hours (927)	'99 John Deere TC54H \$59,500 (544H) tool carrier, JRB coupler system, A/C (928)
Case 921B, big loader, good cond., grapple bucket (857) \$49,500	Fiat Allis FR220, 5 yd. bucket (915) \$39,500	Fiat Allis FR-140 (913) \$29,500
Case W-20B (916) \$17,900	Fiat Allis FR-12B, just in, new center pins \$17,900	Ford A-64, forks & bucket (713) \$17,900
CAT 914-G '02, very nice (911) \$42,900	Hundai 740-3 '00, nice condition! (912) \$39,500	JCB, 436BHT '98, 30,000 lbs. machine w/coupler, A/C (924) \$49,500
Dresser 510, low hours, excellent conditions \$17,900	New Holland LW80 '00, coupler, bucket, fork (919) \$34,900	Trojan 1500Z, foam-filled tires, low hrs., prior gov. (926) \$17,900
Fiat Allis FR15 (874) \$24,900	Volvo L-90C '97 \$49,500	Volvo L70, foam-filled tires, very nice condition (616) \$21,900
(2) Fiat Allis FR-20B (865 & 847) \$29,500		
Fiat Allis 745-C (851) \$20,900		
Coming soon...		
Fiat Allis FR-15B, prior gov.-owned, very nice \$32,900		

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NEW PRODUCT SHOWCASE



MADVAC INTRODUCES THE NEW LT500 LITTER COLLECTOR

The LT500 provides high volume litter collection in hard to reach areas, virtually transforming the traditional manual litter picker into a highly automated litter collection system, leading to increased productivity. By significantly reducing fatigue causing injuries, litter picking has never been safer than with the LT500.

The LT500 vacuums trash and litter from trash cans, landfills, highways, parks and campgrounds, composting and recycling plants, streets, ditches, alleyways, racetracks, stadiums, ports, rail stations and zoos. It utilizes a joystick-controlled robotic vacuum hose arm for hard to reach areas.

Allianz Madvac Inc.
1690 Eiffel
Boucherville, Quebec
Canada
450-616-8100
www.madvac.com



MORBARK INTRODUCES NEW MOBILE GRINDERS

Morbark, Inc. has added two new mobile grinders, the 1300B Track Tub Grinder and the 3800 Track Wood Hog for mobile processing. The 1300B Track Tub Grinder combines heavy-duty construction and new technology. The 330L CAT undercarriage, hydraulic augers, laser-cut hammermill and Iqan system set this unit apart from the competition.

If a horizontal grinder is preferred, the Model 3800 Track Wood Hog is a solid choice. This low-maintenance machine offers a factory-balanced hammermill with forged hammers, an interplanetary drive, 320L CAT tracks and Iqan system.

Morbark, Inc.
PO Box 1000
8507 S Winn Road
Winn, MI 48896
800-831-0042
www.morbark.com



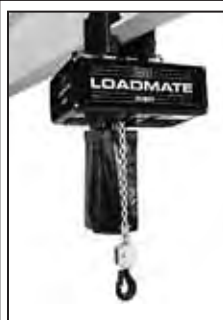
CLEARTAINERS' CLEARMAX FOR VISIBLE RECYCLING

ClearTainers, Inc. introduced its first stationary system – ClearMax™. All-weather ClearMax is made of rugged quarter-inch wire and 14 gauge recycled steel plate and tubing. It is available in galvanized zinc or a blue, powder-coated finish.

A lockable front door and slide-out drawer provide secure access and make it easy to change the plastic bag, which holds 35 gallons of recyclables. The standard beverage top, bold graphics and clear plastic bag communicate what is to be recycled.

ClearMax containers ship fully assembled and ready to use.

ClearTainers, Inc.
6420 W 127th Street
Palos Heights, IL 60463
800-872-8241
www.cleartainers.com



R&M MATERIALS HANDLING INTRODUCES THE LOADMATE

LoadMate® hoists are designed to maximize productivity with fast installation, easy operation and built-in durability. The LoadMate electric chain hoist for windmill applications has a lifting height up to 262 feet with a load capacity from 1/8 to 1 ton.

The hoists have low-voltage control for 115 volt or 48 volt, with a two-button pendant with emergency stop button and IP65 protection. The LoadMate complies with the strictest health and safety regulations that apply to maintenance and repair operations. This offers optimum safety and increased productivity at substantially lower operating costs.

R&M Materials Handling
4501 Gateway Boulevard
Springfield, OH 45502
800-955-9967
www.rmhoist.com



SAS SCORPION ENGINE PULLER WORKS IN UNDER 60 SECONDS

SAS Scorpion engine puller mounts to any wheel loader, 3 or 4 pin-attach with or without a quick coupler over 28,000 lbs. It features an innovative hydraulic system requiring only one auxiliary hydraulic function. The Scorpion removes engines and transmissions accurately and proficiently in under 60 seconds.

Harvest additional copper and aluminum from the dash, radiators, condensers and A/C evaporators. The Scorpion engine puller is mounted on SAS heavy-duty crushing forks designed for severe-duty applications with solid steel, forged fork blades and a high tensile steel carriage.

SAS of Luxemburg, Ltd.
E1039 Hwy 54, Box 260
Luxemburg, WI 54217
800-288-5190
www.sasforks.com



INGERSOLL RAND OFFERS WALK-BEHIND COMPACTORS

The Ingersoll Rand DX-600H and DX-700H walk-behind compactors by Doosan Infracore run on Honda gasoline engines for dependable operation. The compactors achieve job site productivity, optimal density and smooth-quality mat finishes.

The DX-600H has a drum diameter of 14 inches, drum width of 25 inches and operating weight of 1,345 lbs. The DX-700H has a drum diameter of 16 inches, drum width of 25.5 inches and operating weight of 1,565 lbs. Standard features include fold-up handles for storage and transportation, a center-mount lifting hook and automatic shut-off.

Doosan Infracore Portable Power
501 Sanford Avenue
Mocksville, NC 27028
877-472-7263
www.doosanportablepower.com



ATLAS COPCO INTRODUCES BP 2900 BULK PULVERIZER

The BP 2900 provides 399 tons of maximum cutting force and 125 tons of crushing force at the jaw tip. With a service weight of 6,460 lbs., the bulk pulverizer operates at a maximum pressure of 5,075 psi, accepts maximum hydraulic flow of 92 gallons-per-minute, and is suitable for carriers in the 25 to 35 metric weight class.

The BP 2900 has a 37.4" jaw opening and an 18.9" working width and produces its highest forces once the material is firmly against the jaws.

Atlas Copco Construction Tools LLC
94 North Elm Street
Westfield, MA 01085
413-746-0020
www.atlascopco.us



CONVERT BANDIT BEAST GRINDERS TO CHIPPERS

An exchange of standard cutterbodies for cutterbodies with knives converts the Beast® horizontal grinder into a chipping machine. One bolt holds in the knife and counter-knife, making it easy to change knives when they become dull.

During testing, a 700 h.p. model 3680 Beast equipped with the new knife set-up, produced 35 tons of material from large-diameter, frozen hardwood in 30 minutes with little vibration. Equipping the grinder with an optional thrower attachment allows the Beast to act like a whole-tree chipper, fully loading end-opening semi trailers and maximizing efficiency.

Bandit Industries, Inc.
6750 Millbrook Road
Remus, MI 49340
800-952-0178
www.banditchippers.com



WEST SALEM INTRODUCES TWO-PASS GRINDING SYSTEM

West Salem Machinery's two-pass grinding systems combine a slow-speed, high-torque shredder and a high-speed, vertical feed grinder. The high-torque shredder is the primary grinder used for the initial reduction of coarse material down to a 20-24" minus. The vertical feed grinder, or secondary grinder, then produces the finished product.

Adding optional pre-screening machinery before the secondary grinder removes acceptably-sized material and metal contamination before entering the secondary grinder, saving energy and maintenance costs.

West Salem Machinery
PO Box 5288
Salem, OR 97304
800-722-3530
www.westsalem.com



AMERI-SHRED INTRODUCES NEW HARD DRIVE SHREDDERS

Ameri-Shred's new AMS-HDS shredders are designed to physically destroy hard drives and assorted e-waste. Standard features include rugged steel construction and adjustable wear pads to maintain optimum cutter tolerances.

Each is low-speed, high-torque and sized with minimal energy consumption in mind. An ergonomic loading height, staging shelf and convenient, attached discharge conveyor make operation effortless. Heavy-duty casters make the combined unit mobile. Choices of shed widths, voltages, conveyor lengths and paint colors or powder coat are just a few of the options.

Ameri-Shred Corp
PO Box 68
Alpena, MI 49707
800-634-8981
www.ameri-shred.com

EQUIPMENT SPOTLIGHT

Concrete Crushers

by Mark Henricks

Used concrete can be crushed and recycled into a number of uses ranging from general bulk fills to pavement sub-bases for road construction and even new concrete for roads and structures. Recycling concrete saves the cost of transporting for disposal as well as eliminating the energy used to mine, transport and make new cement. Machines that break, remove and crush existing concrete are essential to that process.

Eagle Crusher Company, Inc. of Galion, Ohio manufactures a broad line of heavy-duty impact crushers, portable crushing plants, screening plants and jaw crushers for the recycle markets. "We can build from a real small crusher all the way up to the massive ones," says Bill A. Royce, Midwest sales manager. "We've got a lot of different machines and combinations of footprints."

The hot product for Eagle right now is its 1200-25 CC machine. "It's trailer mounted, and we pull that on a chassis and everything goes on that one structure," says Royce. The package



NPK Construction Equipment, Inc.

includes a two-deck screen, hopper feeder, diesel drive and electric generator. "It's totally self-contained," Royce says.

Eagle's crushers employ a three-bar steel rotor design. "It came out in the early 1990s and we've never had a rotor fail," Royce says. The same design goes on Eagle's smallest 5,000 lb.

crusher up to its largest 26,000 lb. model. "It's a pretty distinctive part of our impactor," Royce says.

Eagle customers range from large recycling companies to small demolition firms, and the machines can be used for a variety of applications. "A guy can buy a 1200 and crush concrete one job, then switch out the screen, make some adjustments and go out and do an asphalt job," says Royce. "Then he can go and do some work in a quarry. It's a very versatile crusher."

Environmental awareness and infrastructure rebuilding drives most of Eagle's business. The declining value of the United States dollar is helping the company be competitive in Canada, Mexico and other international markets. Larger portable machines are overtaking track-mounted machines in popularity. "We're seeing that trend where people are starting to step away from the track machines and look at the bigger portable machines," Royce says.

At NPK Construction Equipment, Inc. in Walton Hills, Ohio, marketing support Steve Kubish says the company manufactures three models of material processors - the M-20 for excavators of 20 to 25 tons, the M-28 for excavators 25 to 40 tons and the M-38 for excavators 33 to 55 tons.

NPK processors have four different interchangeable jaw sets available. The "S" jaw set is optimized for cracking, the "G" jaw for pulverizing and the "K" jaw for shearing. NPK's new "C" jaw combo-cutter serves a variety of demolition and recycling applications. A hydraulic intensifier system boosts power by amplifying hydraulic cylinder pressure when the jaws meet resistance.

NPK also makes two models of primary and secondary concrete crushers, the U-21 for excavators 21 to 31 tons and the U-31 for excavators 31 to 53 tons. "They come in both a fixed bracket model and the "R" models that come with full 360 degree power rotation," says Kubish. "These crushers utilize a newly improved, moveable jaw tooth configuration with lower profile teeth on both sides, a high profile center tooth, and a high strength steel center cutter that slices through rebar and light

steel structures, allowing these crushers to be used in both primary and secondary crushing operations."

Regulatory trends have helped business, Kubish says. "With the more complex safety and hazardous materials handling regulations, these crushers provide improved safety by eliminating the need for demolition workers to expose themselves to unsafe conditions



Eagle Crusher Company, Inc.

while using rebar-cutting torches and working with toxic emissions."

At Lemac Corp. in Petersburg, Virginia, president Frank Coleman says the company makes one mechanical crusher attachment that comes in different sizes. "We make them for 20 metric excavators up to 120 metric ton excavators," Coleman says. The mechanical crushers used the power of the bucket cylinder to crush concrete.

Lemac's mechanical crushers don't rotate like processors, which can be used to take down columns. Users like them because, unlike stationary crushers, they can handle rebar. "The mechanical tools, for the most part, they're not used to get real fine breakage," Coleman says. They're using to create baseball, softball or football sized chucks they can put through a stationary crusher and to get the rebar out because stationary crushers don't really like rebar."

Lemac's crusher jaws have 15 individually replaceable teeth. "We've got a ripper spike on the fixed jaws you can use to pry slabs out," Coleman says. "And we've got rebar cutters built into the jaws that you can cut rebar with." Lemac's configuration of two jaws over three jaws produces larger chunks than other crushers. "Most are three over four or more. That concentrates on getting finer breakage," Coleman says.

With the construction industry in a slump, recycling and demolition is keeping Lemac humming. "Obviously the price of steel and subsequently the

price of scrap is through the roof," says Coleman. "The need to make sure they can get every ounce of rebar out of a job is more important than it ever was."

Manufacturer List

Allied Gator, Inc.
Angela Mavrikis
330-744-0808
www.alliedgator.com

Baker Kurtz
Bruce Kurtz
815-332-1600
www.kurtzcrushers.com

Breaker Technology, Inc.
Frank Cargould
440-248-7168
www.rockbreaker.com

Eagle Crusher Company, Inc.
Bill A. Royce
800-253-2453
www.eaglecrusher.com

Hazemag USA, Inc.
Jeff Sikora
724-439-3512
www.hazemag.com

Holmatro, Inc.
Andy Dant
800-654-0203
www.holmatro-usa.com

Lemac Corp.
Frank Coleman
888-465-3622
www.lemaconline.com

NPK Construction Equipment
Chuck Stevens
800-225-4379
www.npkce.com

R.R. Equipment Company
Randall Bayers
803-416-5200
www.rrequipment.com

Rockland Manufacturing Company
Tara Carson
800-458-3773
www.rocklandmfg.com

Stanley / LaBounty
Uwe Kausch
800-522-5059
www.stanley-hydraulic-tools.com

Universal Engineering Corp.
Scott Ferguson
800-366-2051
www.universalcrusher.com



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INTERNATIONAL

EU set to lock down mercury

European decision makers have agreed to implement an EU-wide ban on exports of mercury and to safely store the surplus. In a second reading plenary vote, the European Parliament approved the compromise amendments previously agreed with the Council. "Reason reigned at the end, narrowly overturning the threat of a deal breaker, said Elena Lymberidi Settimo, project coordinator of the Zero Mercury Campaign.

Although we would have liked to see a more robust regulation, this agreement between the two institutions is a very good step towards locking down mercury in the EU." Already supported by the Parliament, the compounds now included in the export ban are cinnabar ore, calomel and mercury oxide, with some medical and research exceptions. Export of mixtures of mercury with other substances having a mercury concentration of at least 95% has also been banned.

The ban now includes those compounds which would otherwise pose a serious loophole in the regulation. Closing this loophole means that another 50,100 tons of mercury per year, which

could have been recovered from calomel, will not be exported from the EU onto the world market.

Storage of metallic mercury, which is considered waste, will now take place either temporarily or permanently in underground salt mines and hard, deep bedrock. In addition, temporary storage is still possible aboveground. Although the door to permanent underground disposal of liquid mercury is open, any technological advances in transforming liquid mercury into a solid compound must now be considered before mercury can be accepted for disposal into adapted underground facilities.

Several features of the new ban did not come into the compromise agreement, including extending the scope to mercury-containing products which are banned from sale in the EU and an import ban. These features are to be reviewed in the coming years, and the European Commission will present a proposal for a revision of the regulation by March 2013.

Parliament and Council met half way on the implementation date of the export ban, which is now set at March 15, 2011.

UK offers cash for biomass heat and electricity generation

Farmers, foresters and biomass producers can apply for up to £200,000 each, under a new round of grants opened by UK Environment Minister Phil Woolas.

The Bio-energy Infrastructure Scheme will support the biomass industry in England by helping those supplying biomass fuel for use in heat and electricity generation.

Phil Woolas said, "We have to rethink our energy mix. We know biomass has the potential to considerably reduce our dependence on fossil fuels

and cut our carbon emissions. UK producers are setting the standard and have shown production can be sustainable and our investment will support their commitment to this emerging industry.

All projects must be based in England and must supply the biomass to end-users in Great Britain. Grants are available for up to a maximum of £200,000 per producer group or business.

The deadline for applications is August 5, 2008 for applications from businesses and September 5, 2008 from producer groups.

The grants will apply to the following crops:

- Short rotation coppice (willow, poplar, alder, ash, hazel, lime, silver birch, sweet chestnut and sycamore), miscanthus, switch grass, reed canary grass, prairie cord grass, rye grass, straw, woodfuel from forestry, arboricultural tree management and primary processing and other energy crops at Defra's discretion.

Grants will not apply to the following:

- Wood arising from secondary processing and any wood that has been chemically treated or painted, oilseed rape to be used to produce heat and electricity, biomass for processing into transport fuels or animal waste products (e.g., poultry litter, sewage, etc).

A man graduated from veterinary school then took a course in taxidermy. He now has a sign in his Doctor's office that reads, "Veterinarian/Taxidermist - You Just Can't Lose".

Swiss corporation offers new diesel technology

Biotherm Technologie AG, a Swiss-based corporation, offers a process which produces diesel fuel and heating oil from used plastics, waste or bilge oil.

The diesel is gas station quality and meets Europe's EN 590 norm. For this innovative technology, the company expects a major new market from Japan's commercial shipping fleet, which is one of the world's largest.

"Japan has to import most of its energy supplies and many raw materials - all by sea," states Christopher Stampfli, director of Biotherm Technologie AG. "This is highly promising for our process. The bilge oil generated during shipping operations and at the ports no longer has to be disposed of at great cost. Instead it can cover part of Japan's energy needs."

The patented process, which was developed by Clyvia Technology GmbH from Wegberg, Germany, is based on fractionated depolymerization and is similar to the cracking of crude oil. At 400°C it breaks down long hydrocarbon chains, which then vaporize and condense as diesel oil.

In view of rising crude oil prices this process, which has been successfully tested in Europe, provides major advantages to businesses. In addition to shipping, it will benefit a range of industrial corporations and trades which generate waste plastics - from production scrap via foil and plastic bags to yogurt cartons or cable sleeves. All these materials can be used for the production of diesel fuel and heating oil.

Europe pushes for more accessible recycling in public spaces

Environment Minister Joan Rud-dock pledged that people will find it easier to recycle when they are out and about.

'Recycle on the Go' is a new drive to put accessible recycling bins in public places. And it's already started, with The Royal Parks rolling out a recycling bin pilot in Hyde Park over the next three months.

A good practice guide and a code of practice will help those responsible for

public places to make recycling easy and accessible. Wherever possible bins will feature "Recycle Now" signage so people can easily identify where and how to recycle their cans, bottles and paper.

"Recycle on the Go" is about making recycling a natural part of everyday life no matter where people are. But the bigger issue here is about a pushing a behavior change around how people dispose litter when they're away from the home.

EQUIPMENT SPOTLIGHT

To be included in the spotlight, you must manufacture the equipment featured.

We require a company name, contact person, telephone number and, if applicable, a website address.

To be listed in the appropriate spotlight, please call 877-777-0737.

UPCOMING TOPICS	
08/08	Conveyors (electronics)
09/08	Sorting Systems for Single Stream Recycling
10/08	Wheel Loaders
11/08	Wire Removal Systems (tires)
12/08	Can Flatteners/Blowers

American Recycler is not responsible for non-inclusion of manufacturers and their equipment. Manufacturers are to contact American Recycler to ensure their company is listed in the Equipment Spotlight.

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BUSINESS BRIEFS

Ze-gen's Scientific Advisory Board grows

■ Ze-gen, Inc. announced that Dr. Jeff Tester and Dr. Mert Flemings have joined the company's Scientific Advisory Board. The Scientific Advisory Board focuses on overseeing and driving the technical development of Ze-gen's advanced gasification technology and offers scientific guidance on the company's technical direction.

Dr. Jefferson Tester has been involved in chemical engineering process research as it relates to renewable and conventional energy extraction and conversion and environmental control technologies for over three decades.

He is currently the H.P. Meissner professor of chemical engineering at the Massachusetts Institute of Technology. From 1989-2001, Dr. Tester served as director of MIT's energy laboratory. He has also served as the director of MIT's School of Chemical Engineering Practice Program and a group leader in the Geothermal Engineering Group at Los Alamos National Laboratory.

Dr. Merton Flemings has been active nationally and internationally in strengthening the field of materials science and engineering and in delineating new directions for the field. He has an extensive background on the engineering fundamentals of materials science, and on the innovation of materials processing operations.

Dr. Flemings is currently a professor of materials processing and director of the Lemelson-MIT Program, a program at MIT that aims to honor inventors and to inspire inventiveness in young people. He previously served as co-director of the Singapore-MIT Alliance. He established the Materials Processing Center at MIT in 1979 and was its director from 1979-1982. He also served as head department of materials science and engineering, from 1982-1995, and thereafter returned to teach and research.

Former DuPont leader joins SunEthanol as CEO

■ SunEthanol announced that it has hired biofuels leader William Frey, Ph.D., as the cellulosic ethanol company's new chief executive officer.

Previously, Dr. Frey led the efforts to commercialize advanced biofuels and new cellulosic process technologies being developed by DuPont. Frey was one of the first business development leaders who established the DuPont Bio-Based Materials business in the late 1990's, now known as DuPont Applied BioSciences. He personally led the team that developed DuPont Biofuels as a business unit in 2002, and has broad partnership experience with industry leaders such as BP, British Sugar, Tate & Lyle and Genencor, a division of Dansico, as well as significant experience in working with global government agencies, including the U.S. Department of Energy. Dr. Frey had been with DuPont for 28 years prior to accepting the position as CEO of SunEthanol.

Oil Purification Systems joins WasteWise Program

■ Oil Purification Systems (OPS) is participating in the United States Environmental Protection Agency's (EPA) WasteWise program.

As a WasteWise endorser, OPS will help promote environmental sustainability to its customers, partners and suppliers, will continue to bring attention to the important issue of reducing waste oil and will work with other WasteWise members to create positive partnerships that will encourage additional awareness of environmental issues.

WasteWise is a free, voluntary EPA program through which organizations eliminate costly municipal solid waste and select industrial wastes, benefiting their bottom line and the environment. WasteWise is a flexible program that allows partners to design their own waste reduction programs tailored to their needs, and also provides free technical assistance to help organizations develop, implement and measure waste reduction activities.

U.S.-Asia container lines raise recovery surcharges

■ Westbound Transpacific Stabilization Agreement (WTSA) lines will raise their bunker surcharges, effective July 1, 2008, to \$600 per 40-foot container (FEU), or the full formula level in effect at the time, whichever is lower. As of October 1, surcharge levels for all tariff and contract cargo will be increased to the full, floating bunker surcharge in effect at that time, and will then be adjusted monthly to float with fuel price fluctuations under the WTSA calculation formula.

WTSA is a voluntary discussion and research forum of 10 major ocean and intermodal container shipping lines serving the trade from ports and inland points in the United States to destinations throughout Asia.

Global 8 Environmental appoints new CFO

■ Global 8 Environmental Technologies, Inc., a developer of environmental technology solutions, announced the appointment of industry veteran, Carl Mennie to the position of chief financial officer.

Prior to joining Global 8, Mennie served as division controller for Allied Waste Industries, Inc. where he was one of only two controllers in the company's western region to receive an award for excellence. Mennie was instrumental in improving the overall quality and accuracy of accounts receivable, reducing expenses, maximizing efficiency and implementing key controls for Sarbanes-Oxley compliance regulations.

Mennie also served as a senior financial analyst for Household Credit Services where he was responsible for budgeting and forecasting the financial and statistical performance of several operational departments, including customer retention and fraud detection.

ThermoEnergy announces results for first quarter

■ ThermoEnergy Corp. reported total operating revenue of \$409,000 for the first quarter ended March 31, 2008 compared to \$73,000 for the quarters ended March 31, 2007. The Company's water subsidiary CASTion reported \$226,000 in revenue, while the Power Group contributed \$183,000 in revenue.

The Company had total operating expenses of \$1,654,000 for the first quarter 2008 compared to \$821,000 for the quarter that ended March 31, 2007. Over one-third of the first quarter 2008 operating expenses represented the expense of options, and other one time expenses related to the consolidation of CASTion, and discount to convertible debt. Without these one time expenses, operating expenses for the quarter were flat from year to year including the increased staff from the CASTion acquisition and additional hires to help promote the ARP technology solution. Management believes that current operating expenses will support revenue and sales expected for the remaining of the year.

Loss per share was \$.05 per share for the first quarter 2008, compared to the loss per share of \$.03 for the same period in 2007.

CleanTech Biofuels promotes Michael Kime

■ CleanTech announced that Michael Kime has been promoted to the position of chief operating officer. Kime previously served as general counsel. He will continue in that role in addition to his new executive responsibilities.

Before joining CleanTech Biofuels, Kime was a partner in the St. Louis law firm Sauerwein, Simon, Blanchard & Kime, PC where he managed the firm's corporate law practice. Kime serves on the board of directors of Missouri Votes Conservation, a bi-partisan environmental lobbying group.

Cartridge World names Joy James senior VP

■ Cartridge World announces the appointment of Joy James as senior vice president of business development.

James, who most recently served as managing principal of The Joy James Group (JJG), a management consulting firm that specializes in the imaging industry space, will be responsible for driving Cartridge World North America's growth and spearheading the go-to-market approach in order to deliver small-to-medium sized businesses with complete printing solutions.

With nearly 15 years of experience in the printer cartridge aftermarket, James brings extensive experience in management. Prior to forming JJG, James co-founded InkCycle. In addition, James has built several aftermarket supplies companies during her career, including Environmental Reclamation Services and Dataproducts/Hitachi Koki Imaging Supplies division.

Peterbilt of Bristol named East trailer dealer

■ Peterbilt of Bristol, Inc., serving a nine-county region in the Bristol, Virginia area, was recently named an authorized dealership for East Manufacturing, offering the company's full line of flatbeds, dump trailers and accessories.

With 31 employees in a 27,000 square foot facility, Peterbilt of Bristol has a 22-bay repair shop and also builds custom trucks. Established in 2002, Peterbilt of Bristol is located at 33392 Lee Highway, in Glade Spring, Virginia.

Federal Environmental Executive appointed

■ The White House announced that President George W. Bush intends to appoint Joseph Cascio, of Maryland, to be the next Federal environmental executive.

Cascio currently serves as a senior associate at Booz Allen Hamilton. Prior to this, he served as vice president of the International Resources Group, Limited. Earlier in his career, he served as vice president of the Global Energy and Technology Foundation.

SA Recycling acquires Pacific Coast Recycling

■ Sims Group Limited announced that SA Recycling, a joint venture between Sims Group and Adams Steel, has purchased Long Beach, California based Pacific Coast Recycling, LLC (PCR) from Mitsui & Co. Ltd. and its 100% subsidiary Mitsui & Co. (USA), Inc. The financial terms of the deal, including price, were not disclosed.

PCR operates seven facilities in California, including locations in the Port of Long Beach, San Diego, Fontana, and South Gate, processing both ferrous and nonferrous scrap metal with annual shipments of approximately 1 million metric tons.

Heil Environmental names Valley Truck as dealer

■ Heil Environmental has named Valley Truck and Trailer Service of Glendale, Arizona, as its dealer for the state of Arizona effective July 1, 2008. As the Heil dealer, Valley Truck will provide national, municipal and private customers throughout the state with Heil refuse and recycling collection vehicles, Heil Certified OEM replacement parts, Parts Inc. aftermarket parts, and complete vehicle service.

Located within the Phoenix metropolitan area, Valley Truck has provided complete service and support for medium and heavy-duty trucks in the region since 1984. Its 12,000-square-foot facility, situated on two acres, includes 12 service bays. The company also has a mobile service truck and parts delivery trucks, for maximum customer convenience.

BUSINESS BRIEFS

Klinger named new director on Navistar board

■ The board of directors of Navistar International Corporation appointed Steven J. Klinger, president and chief operating officer, Smurfit-Stone Container Corporation, as a new director effective as of June 2, 2008.

Since joining Smurfit-Stone in May 2006, Klinger has been an important driver of the company's three-year transformation process which includes reducing the company's cost structure, streamlining the manufacturing process, upgrading the leadership talent, and aligning sales and marketing.

Klinger joined Smurfit-Stone following a 23 year career at the Georgia-Pacific Corporation where he most recently served as executive vice president, packaging, pulp and global procurement.

Newpark Resources chooses division leader

■ Newpark Resources, Inc. announced that William D. Moss, has been named president of Newpark's Mats and Integrated Services business, effective June 2, 2008. He will be based in The Woodlands, Texas and is also an executive officer of Newpark Resources, Inc.

Before joining Newpark, Moss held management positions at BJ Services Company, most recently, since 1997, as division president of BJ Chemical Services, a provider of production and industrial chemicals, remedial pumping and capillary services to domestic and international customers. He previously served as director, logistics of BJ Services with responsibility for the worldwide logistics organization.

Events Calendar

August 3rd-7th

5th SETAC World Congress. Sydney Convention and Exhibition Centre, Australia. +61 2 9265 0700 • www.setac2008.com

September 7th-10th

2008 Global Waste Management Symposium. Copper Mountain Conference Center, Copper Mountain, Colorado. 203-358-4314 • www.wastesymposium.com

September 21st-24th

National Recycling Coalition's 27th Annual Expo. David Lawrence Convention Center, Pittsburgh, Pennsylvania. 202-789-1430 • www.nrc-recycle.org

October 20th-21st

75th Annual Meeting of the Aluminum Association. The Greenbrier, White Sulphur Springs, West Virginia. 703-358-2975 • www.aluminum.org

October 21st-25th

ARA 65th Annual Convention & Exposition. Hyatt Regency Crown Center, Kansas City, Missouri. 888-385-1005 • www.a-r-a.org

October 21st-23rd

Wastecon 2008. Tampa Bay Convention Center, Tampa, Florida. 800-467-9262 • www.wastecon.swana.org

Sims Group acquires Clearhouse Technology

■ Sims Recycling Solutions, operating as Sims E-Recycling Pty Ltd. in Australia, expanded its asset recovery business in the end-of-life IT disposal market through the acquisition of the assets and business of Clearhouse Technology Pty Ltd.

Clearhouse Technology Pty Ltd. based in Melbourne, Australia was founded in 2003 and has grown to be one of the leading service providers in the region covering the collection, data protection, redeployment and remarketing of obsolete IT equipment for a variety of government and B2B customers.

Tony Nestola and Glenn Reid, founders of Clearhouse Technology will continue as consultants for Sims and will work closely with Kumar Radhakrishnan, senior vice president, APAC for Sims Recycling Solutions.

Hirschmann names new premier dealer

■ Hirschmann Automation and Control (PAT) located in Chambersburg, Pennsylvania, has named Columbus Equipment Co. as their new Premier Dealer for the state of Ohio.

Columbus Equipment Co. carries Hirschmann's entire line of PAT, Krueger, and Hirschmann-branded load moment indicators, indicating devices, and sensors, including the iVISOR maestro LMI upgrade system.

Smurfit-Stone cements new appointments

■ Smurfit-Stone Container Corporation has named Kevin Rauber vice president and general manager of national accounts for the company's recycling division, and promoted Anthony DiIenno to vice president of national accounts for the recycling division.

Rauber will provide overall leadership to the company's waste services, non-paper sales and national account groups.

DiIenno will lead the national account sales team, as well as overseeing the division's sales training program.

Rauber has more than 20 years of operations, sales, marketing and business development experience in the solid waste industry. Prior to joining Smurfit-Stone, he served as director of business development, sales and marketing for EnviroSolutions in Manassas, Virginia.

DiIenno joined Smurfit-Stone in April 2007 as director of national fiber procurement. A 22-year veteran of the recycling industry, he has extensive high-grade waste paper experience in domestic and foreign markets.

China Recycling Energy appoints new director

■ China Recycling Energy Corp. (CREG), an industrial waste-to-energy solution provider in China, announced that it has appointed Nicholas Shao of Carlyle Asia Growth Partners, as a member of the board of directors. This brings the total number of CREG directors to four.

Columbus-based recycler restructures management

■ Steve Grossman, president of The Grossman Group, Inc., a central Ohio waste recycling and marketing of recycling resistant materials business, has announced the reorganization of the company.

A new entity, Industrialbags.com, Inc. will continue The Grossman Group's Industrialbags.com division's business of manufacturing and sales of industrial strength bagging lumber wrap and other poly materials. The company's recycling activities, including its recycling operations at its plant which is subleased from SWACO in Columbus, are being transferred to Grossman Environmental Recycling, Inc. The Grossman Group, Inc. will focus on its materials marketing business and environmental consulting while simultaneously sharing knowledge gained from its almost forty years of recycling experience with communities, non-profit organizations and other entities desiring to expand their recycling and waste reduction activities.

Nucor declares dividend plus supplemental payout

■ The board of directors of Nucor Corporation declared a regular quarterly cash dividend of \$.32 per share on Nucor's common stock.

In addition to the \$.32 per share base dividend amount, Nucor's board approved the payment of a supplemental dividend of \$.20 per share, for a total dividend of \$.52 per share. This cash dividend is payable on August 11, 2008 to stockholders of record on June 30, 2008, and is Nucor's one-hundred forty-first consecutive quarterly cash dividend.

The supplemental dividend is based primarily on Nucor's continued strong results. The payment of the supplemental dividend in any future period will depend upon many factors, including Nucor's earnings, cash flows and financial position.

Constellation Energy acquires power plant

■ Constellation Energy announced it has completed the purchase of the West Valley gas-fired peaking plant near Salt Lake City, Utah, from a unit of Iberdrola Renewables, Inc. Constellation Energy assumed ownership and began operating the power plant earlier this month.

A 200-megawatt natural gas plant, the West Valley plant was owned by West Valley Leasing Company, LLC., but has been leased to PacifiCorp since the plant began commercial operation in 2002.

The West Valley plant operates during peak demand periods, such as hot summer and cold winter days. By permit design, the plant is limited to operating a certain number of hours per year.

Constellation Energy also is a part owner and operator of the Sunnyside Cogeneration plant, a power plant fueled by waste coal located outside Price, Utah.

ECO2 Plastics appoints new members to board

■ ECO2 Plastics, Inc., announced the appointment of Tom Hutton, John Moragne and David Buzby to the Company's board of directors. The appointments are associated with the recent close of \$6.5 million in financing led by Trident Capital and Thompson Hutton, LLC.

Tom Hutton joins the board as chairman, replacing William Whittaker who remains a director. Gary De Laurentiis, Ronald Domingue and Lawrence Krause have resigned their board positions, allowing the new members to be appointed. De Laurentiis, founder of ECO2, remains as the Company's chief technology officer.

The experience of the new Board members is extensive; Tom Hutton served as a director of a number of private and public companies; David Buzby is a veteran of the recycling industry and investor in Clean Tech companies such as Sun Edison, where he serves as chairman; and John Moragne, co-founder and managing director of Trident Capital, who in addition to his venture experience, holds numerous directorships in both public and private companies.

ArcelorMittal acquires Canadian metals recycler

■ ArcelorMittal has signed an agreement to acquire Bakermat, a scrap metal recycler located in Eastern Ontario, Canada.

Bakermat, which specializes in all types of ferrous and non-ferrous metal, processed approximately 130,000 short tons of ferrous and 40 million pounds of non-ferrous metals in 2007. The plant, located near Ottawa, will secure upstream self sufficiency in shredded metal for ArcelorMittal's Contrecoeur mill.

Caterpillar acquires certain Gremada assets

■ Caterpillar, Inc. and Gremada Industries, Inc. announced that Caterpillar will acquire certain assets of Gremada Industries. The acquisition agreement was signed on June 15, 2008, and the deal is expected to close upon completion of legal and regulatory requirements.

Gremada Industries is a leader in the processes of remanufacturing and reclaiming metal parts and components used in transmissions, torque converters and final drives. Gremada provides service support for off-highway equipment used in the mining and petroleum industries, and it has extensive experience providing remanufacturing expertise for equipment used for petroleum drilling applications.

Privately held Gremada is based in West Fargo, North Dakota, and has another nearby primary location in Fargo, North Dakota. The company has more than 200 employees, who will become part of Caterpillar's Remanufacturing Division following the closing of the deal. Financial details of the agreement are not being disclosed.

BUSINESS BRIEFS

Shawn Sweet appointed president of Doosan

■ Shawn R. Sweet has been named president of Doosan Infracore Portable Power, and will be responsible for all aspects of the global business of Doosan Infracore Portable Power. The appointment was made by David Rowles, chief executive officer of Doosan Infracore International.

Previous to this appointment, Sweet was vice president of global marketing for Doosan Infracore Portable Power, having joined the company in January of 2008.

Sweet began his career more than 17 years ago with Ingersoll Rand – Canada and held sales, marketing, product management, operations and sales management roles in the organization. He was formerly Ingersoll Rand Construction Technologies vice president of sales for North America. Prior to that appointment, Sweet was a regional vice president of Ingersoll Rand Equipment and Services.

Sweet joined Volvo Construction Equipment in 2007 at the time of the Volvo acquisition of the Ingersoll Rand Road Development business. Sweet was vice president and managed channels with Volvo Construction Equipment, where he led the sales teams for Volvo Company Stores and Rental until he joined Doosan in early February of this year.

Nucor names Farris VP of its iron-making facility

■ Nucor Corporation has named John C. Farris vice president and general manager of Nucor's new iron-making facility. Farris joined Nucor in 1992 and has been a vice president of Nucor since 2006. He has been general manager of Nucor's bar mill in Marion, Ohio since 2005. Previously, Farris worked as a manager at Nucor's bar mill in Jewett, Texas.

Nucor previously announced its application for a permit to build a state-of-the-art iron-making facility in St. James Parish, Louisiana. The project's site is not a certainty as permits have to be issued and Nucor's board of directors must approve the selection of the site and the capital investment. In addition, sites outside of the United States are still under consideration. This facility will utilize advanced heat-recovery coke technology that will capture waste energy, making the operation self-sufficient in power. The coke-making facility will meet and likely outperform current best-available control technology requirements.

International Paper's acquisition approved

■ The United States Department of Justice has concluded its Hart-Scott-Rodino review of International Paper's announced acquisition of Weyerhaeuser's containerboard packaging and recycling business. Regulatory reviews in several other countries are ongoing.

Completion of the transaction is expected to occur in the third quarter of 2008.

Vandersarl leads AF&PA's Government Affairs

■ The American Forest & Paper Association (AF&PA) announced that Elizabeth VanDersarl has been named vice president of AF&PA Government Affairs. VanDersarl will manage the Association's advocacy efforts in Washington DC, state capitals around the country and international venues.

VanDersarl joined AF&PA in 2006 as a director of Congressional Affairs, handling energy, environment, and homeland security issues. Most recently, she served as executive director of Public Affairs where she was instrumental in streamlining AF&PA's message development and communications.

Prior to her work at AF&PA, she managed a portfolio of regulatory issues at the Office of Management and Budget. She has also served as counsel to former ranking Senator Fred Thompson (R-TN) on the Senate Committee on Governmental Affairs, and was an assistant states' attorney in Illinois.

IronPlanet appoints new head of government sales

■ IronPlanet®, an online auction company for used construction and agricultural equipment, recently appointed Greg Forke to the position of governmental sales manager. Forke will be responsible for IronPlanet's continued expansion in the governmental equipment market.

Forke has nearly 30 years of experience in the auction industry. He began his career as part of Forke Brothers, where he held several positions, including vice president of North American auction operations from 1992 until the company was sold in 1999.

Most recently, he helped start the heavy construction equipment division for GoIndustry Michael Fox International, an auction company specializing in industrial machinery and manufacturing equipment.

Com-Cycle opens new facility in Houston, Texas

■ Com-Cycle, a wholly-owned subsidiary of AERC.com, Inc. opened a new processing facility at 1610 Greens Road, Houston, Texas.

The 35,000 square foot location will house secure data management services, including equipment disassembly, refurbishment of electronics to be resold, and the sanitization of data storage devices.

All Com-Cycle facilities invite local residents and business owners to responsibly dispose of their end-of-life electronics. Each facility hosts drop-off Fridays year round, where a minimal fee is usually charged for certain items that are dropped off.

Com-Cycle follows a zero-waste-to-landfill policy on all of its practices. John Schuler and Doug Everett are regional sales managers who are servicing the area.

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- 2001 LIEBHERR A924 REBUILT (rubber) with 38' reach, hydraulic cab, gen-set and grapple.
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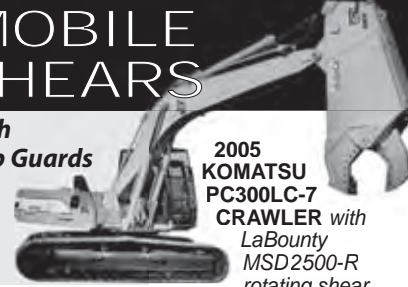
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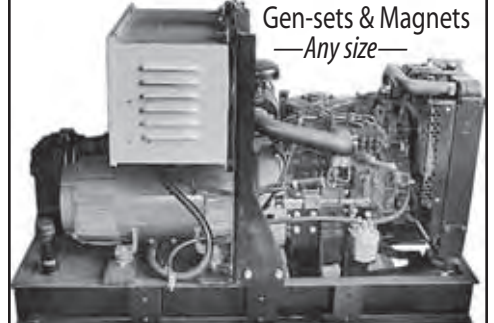
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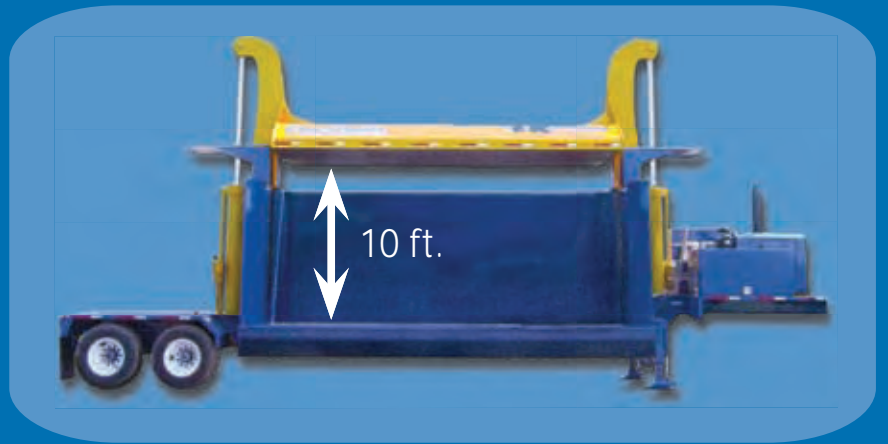
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EPA's TAGA bus ensures landfill compliance

The United States Environmental Protection Agency's (EPA) TAGA bus (Trace Atmospheric Gas Analyzer), a specialized mobile air quality laboratory, visited the Countywide Landfill in East Sparta, Ohio.

In April, EPA entered into an agreement requiring landfill operator Republic Services to take a number of actions to protect human health and the environment at and around the facility. Data collected by the TAGA bus will help EPA establish a baseline to assess the effectiveness of air pollution control methods required under the agreement.

The actions, paid for by Republic, are expected to cost several million dollars. In addition, the company will reimburse EPA for oversight expenses that it incurred.

The EPA is currently reviewing Republic's proposed action plans to address installation of a landfill cover and long-term capping provisions, landfill gas extraction and monitoring, ambient air monitoring at and around the facility, and workplace safety and health operations for Countywide Landfill employees. Upon approval of these plans, site work will begin under EPA oversight.

The EPA is the lead agency ensuring compliance with the April order. Ohio EPA and the Stark County Health Department continue to oversee day-to-day operations under a state waste facility permit. Ohio EPA also continues to monitor compliance with all previously issued state orders.

The Countywide Landfill opened in 1991. About 275 acres of the site are permitted for disposal of solid waste. The site contains about 600,000 tons of aluminum process waste. The aluminum waste reacts when it comes into contact with liquids, generating noxious odors and heat. Ohio EPA formally requested EPA clean-up assistance at the site in February.

The TAGA bus is managed by the agency's Edison, New Jersey-based Environmental Response Team. The vehicle has been used to assess airborne contaminants at other landfills.

Waste truck and equipment buying slows for C&D markets

Economic Stimulus Package will boost equipment sales

by Brian R. Hook

A sluggish economy is forcing solid waste companies to think twice before embarking on big capital spending programs to buy new trucks and equipment.

One of the truck manufacturers to feel the impact of this hesitation is Navistar International Corp., where truck sales to solid waste companies have slipped.

"I think there is a general sense of cautiousness on the part of solid waste companies because of what is going on in the broader economy," says Melissa Gauger, marketing manager at the Warrenville, Illinois-headquartered truck manufacturer.

Navistar does not break down its sales according to how many trucks are sold to different sectors, like solid waste companies or commercial truckers. However in a securities filing in March, Navistar estimates that military and export vehicles made up a third of its total shipments, offsetting weakness in the domestic commercial market.

Across the truck manufacturing industry, sales to solid waste companies were down 25 percent compared to the same quarter last year, Gauger says, adding that most of the decline in roll-off trucks is because of a downturn in the residential construction industry.

"That's where you're seeing a lot of the drop off in sales," she says.

Sales of rear-loaders, side-loaders and front loaders to



Autocar LLC, which sells haulers like this one in Chicago, expects a slowdown in purchases through 2008.

solid waste companies have fallen a little, Gauger says, but not to the same extent as in the roll-off truck market.

Gauger is predicting that truck sales to solid waste companies are going to remain flat this year with some recovery next year, but not at the level seen in previous years.

The economic stimulus legislation passed by the United States Congress earlier this year might boost sales, Gauger says. The legislation provides a 50 percent depreciation allowance for capital investments this year, in addition to the regular allowance.

"It depends on what operations you're looking at," Gauger says. "It's an incentive for customers to purchase if they are making money." However, it might not be beneficial for many in the construction industry, for example, she says.

If the company is not making money, it is not necessarily

going to help by increasing depreciation.

Republic Services, a solid-waste company headquartered in Fort Lauderdale, Florida, plans on benefiting from the extra depreciation allowed for this year.

"We plan to purchase more vehicles to take advantage of the economic stimulus package," says Will Flower, vice president of communications at Republic Services.

"We will purchase about 10 percent more trucks over last year."

Republic Services usually purchases about 500 vehicles each year, Flower says, noting that Republic Services has one of the youngest aged fleets in the industry.

strategic budget planning process, which takes place in September and October.

One of the biggest issues facing any solid waste company considering the purchase of new trucks or equipment this year are higher prices, Flower says.


"We have seen a huge run up in pricing," Flower says.

Changing regulations also impacts the decision-making process. Flower says that new diesel engines need to comply with requirements to reduce emissions. New federal emission standards went into effect in 2007 and another round is set for 2010.

"New engines are more expensive and add to the cost," Flower says.

Evolving technology in diesel engines is stopping Casella Waste Systems Inc. from buying more trucks this year, says Ned Colleta, director

Continued on Page 5



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SEI president sentenced for environmental oversights

Spencer Environmental Incorporated (SEI) and its president, Donald M. Spencer, were sentenced by U.S. District Judge Haggerty for the District of Oregon, the Justice Department announced. In a related matter, SEI's former engineer, Durbin Hartel, was indicted by a federal grand jury for obstruction of justice and lying to investigators.

SEI and Spencer admitted to three felony violations of hazardous waste laws of the Resource Conservation and Recovery Act (RCRA) on October 12, 2007. The court sentenced SEI to pay \$150,000. Of this amount, \$75,000 will fund various environmental projects in Oregon administered by the congressionally established National Fish and Wildlife Fund (NFWF) through the Oregon Governor's Fund for the Environment. Judge Haggerty sentenced Spencer to 6 months in prison and 1 year of supervised release.

The case arose from an investigation into a fire at SEI's former facility. SEI was an Oregon corporation that operated a recycling and wastewater treatment facility located in Portland. The company contracted with industrial companies to collect and recycle material including used oil and antifreeze, and to collect, treat and dispose of wastewater. Spencer was the founder and president of SEI. As president, Spencer had the authority to exercise control over every aspect of the handling of waste and used oil at SEI's Foster Road plant.

RCRA, in addition to regulating hazardous waste, establishes standards for handling used oil that are designed to minimize the risk of fire and release of used oil into the environment. Between April 2000 and June 2003, employees at the SEI Foster Road plant repeatedly violated the RCRA standards for handling used oil by routinely spilling used oil, overfilling a waste pit used for oily waste, and failing to properly clean up spills when they occurred. This resulted in the release of used oil outside the Fos-

ter Road plant, including at least one spill that spread to a storage facility occupied by an appliance retail company next door to the plant. Following the sale of SEI's facility, a fire broke out when a welding spark touched off used oil residue in a pit and quickly spread to other oil-soaked parts of the facility, largely destroying the facility and leading to the contamination of Johnson Creek, a tributary of the Willamette River known to contain threatened salmonids.

The related indictment charges Durbin Hartel, the former engineer for SEI, with covering up the investigation into a worker's death at SEI's facility. Timothy Smith, a summer employee of SEI, was told to pressure wash a 10,000 gallon wastewater tank. Following the cleaning, Smith suffered lung damage that progressed and ultimately resulted in his death. Hartel allegedly filled the wastewater tank with a viscous sludge or rocker lube to conceal its former contents. Attempts to determine what substance caused Smith's injury were thwarted by the wastewater tank having been filled. When Oregon Department of Environmental Quality and Oregon Occupational Safety and Health Division investigators interviewed Hartel, he denied any knowledge the tank had been filled with sludge despite having allegedly ordered an SEI worker to fill the tank.

"Spencer Environmental and its corporate official are paying the price for lax environmental oversight," said Eileen Sobock, Deputy Assistant Attorney General for the Justice Department's Environment and Natural Resources Division. "Today's sentencing and the indictment of SEI's former engineer reaffirm the Department's commitment to protecting the environment and worker safety, as well as ensuring that there is a level playing field for those corporations that conduct business in an environmentally responsible manner."

AT&T adds 105 alternative fuel vehicles to fleet

AT&T Inc. plans to add 105 alternative-fuel vehicles to their corporate fleet. The vehicles, which will roll out in more than 30 cities across the United States in June, will help the company reduce its impact on the environment and its dependence on imported oil.

After evaluating several alternative-fuel technologies, AT&T will deploy three types of alternative-fuel vehicles. AT&T will measure and track fuel efficiency, greenhouse gas emissions, operating costs, performance and driver satisfaction of each vehicle.

"Reducing our fleet's petroleum fuel consumption and operating costs is a top priority," said Jerome Webber, vice president of fleet operations. "Even the smallest improvement in fuel use, when applied across our corporate fleet, can make a significant impact for the environment and for our business."

The alternative-fuel vehicles consist of 25 Compressed Natural Gas (CNG) vans, 65 electric hybrid original equipment manufacturer (OEM) vehicles - Ford Escapes and Toyota Priuses - and 15 electric hybrid conversion work trucks.

AT&T estimates that its use of these alternative-fuel and more fuel-efficient vehicles will reduce greenhouse gas emissions by 124 metric tons and conserve nearly 34,395 gallons of fuel annually.

The CNG vans are expected to reduce greenhouse gas emissions by nearly 30 percent compared with traditional gasoline vans. The electric hybrid OEM vehicles are expected to offer a 39 percent improvement in fuel economy and reduce greenhouse gas emissions by 29 percent. The electric hybrid conversion work trucks are expected to offer a 38 percent improvement in fuel economy compared with similar gasoline-powered vehicles and reduce greenhouse gas emissions by 28 percent.

New biodiesel facility opens in Texas

GreenHunter Energy, Inc. announced the grand opening of its state-of-the-art Renewable Fuels Campus as well as the commencement of commercial operations of the company's new biodiesel refinery located in Houston, Texas.

GreenHunter Energy's Renewable Fuels Campus is a zero emissions facility composed of four predominate assets: a 105 million gallon per year biodiesel refinery, a 700,000 barrel bulk liquid terminal operation, a 200 million pound per year glycerin distillation system, and a 45,000 barrel-per-month methanol distillation tower. The biodiesel refinery is the largest in the United States and is "feedstock agnostic", meaning that it can use 100% animal fats, 100% vegetable oils, or any blend of the two interchangeably. The finished product is one of the higher quality biodiesels, sometimes called "water-white" biodiesel.

Britain invites partnership approach to waste

Local British authorities that are interested in forming partnerships to deliver and make available cost-effective waste services for their communities have been invited by Environment Minister Joan Ruddock to submit an expression of interest. The power to create Joint Waste Authorities (JWAs) came into effect in 2007 in response to requests from local authorities. Joan Ruddock has written to all local authority chief executives with an invitation to submit a no-commitment expression of interest in applying to become a JWA. It is hoped that formal developed proposals can be submitted from Fall 2008.

The power to create Joint Waste Authorities came into effect in 2007 in response to requests from local authorities.

Regarding JWAs, Joan Ruddock said, "Waste is an issue which affects everyone, but local circumstances vary considerably. We want to give local authorities flexibility and choice over the solutions available to them, so they can manage waste in the way that serves their communities best. Local authorities have asked for JWAs, and they offer another voluntary option for strong partnership working with the potential to deliver joined-up, more cost-effective and efficient waste services to those who would most benefit from them.

It is up to the relevant local authorities to decide whether to make a proposal for a JWA, and which types of waste function (collection, disposal and/or street cleansing) they wish to discharge through a joint waste authority."

NASA awards contract for reactor cleanup

NASA has recently awarded a contract to Clauss Construction of Lakeside, California to carry out and complete the decontamination and preparation for a final status survey of NASA's Plum Brook Reactor Facility located in Sandusky, Ohio. The facility is managed by NASA's Glenn Research Center in Cleveland.

The contractor will perform decontamination and radiation protection activities. This will include the safe packaging, shipment and disposal of all on-site low-level radioactive waste and contaminated soil existing at the time of contract award and that generated by the facility during the contract performance period.

This cost-plus-fixed-fee contract is valued at more than \$33.5 million. The period of performance is 30 months.

DOE seeks licensing for Yucca Mountain nuclear waste site

A Minnesota Indian tribe is again echoing the need for a national nuclear waste repository following the formal license application to build an underground storage facility at Yucca Mountain. High-level, radioactive nuclear waste from the nation's nuclear power plants is currently accumulating at temporary storage sites in 39 different states.

Located just 600 yards from 24 large containment units of highly radioactive spent nuclear fuel, the Prairie Island Indian Community in Red Wing, Minnesota is among the closest commu-

nities in the country to a temporary waste site. According to the Department of Energy, there are 125 of these facilities throughout the United States and more than 169 million Americans reside within 75 miles of them.

"The recent filing with the Nuclear Regulatory Commission is an important step forward in establishing a permanent storage facility for the nation's nuclear waste," said Prairie Island Tribal Council President Ron Johnson. "We urge Congress to commit to a national storage solution and continue funding this vital effort."

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Republic ordered to 'Get to Work' on landfill

The U.S. Environmental Protection Agency (EPA) has ordered landfill operator Republic Services of Southern Nevada, to immediately begin remediation work at the Sunrise Mountain Landfill in Clark County, Nevada.

Sunrise Landfill, a 440-acre closed municipal solid waste landfill, is located approximately three miles outside of Las Vegas city limits. The established landfill cover failed during a series of storms in September 1998, sending various wastes into the Las Vegas Wash. The landfill is located two miles above the Las Vegas Wash, which discharges directly into Lake Mead — a primary drinking water resource for much of southern Nevada, including the Las Vegas metro area, as well as the Phoenix metro area and southern California.

"This order directs Republic to initiate stabilization work at the landfill to protect public health while steps are taken to finalize a comprehensive agreement to implement the entire remedy," said Jeff Scott, Waste Division director in the EPA's Pacific Southwest region.

The order requires Republic to immediately begin work and submit plans to the EPA including: a final cover plan, a storm water control plan, a groundwater monitoring plan, and other additional reporting and implementation tasks to insure environmental compliance. The total cost of the work required is approximately \$7 million.

"The EPA has identified a comprehensive engineering remedy with long-term integrity," said Steve Wall, an environmental engineer in the EPA's Pollution Prevention and Solid Waste Office. "This durable and cost-effective landfill cover and stormwater system will meet the specific geographic and climatic needs of Nevada's arid desert landscape."

The landfill was operated on behalf of the County by entities related to Republic Services of Southern Nevada from the 1950's through 1993. Following the landfill cover failure in 1998, the EPA cited Republic Dumpco and the Clark County Public Works Department for violations of the Clean Water Act and the Resource Conservation and Recovery Act. At that time, the EPA ordered the company to implement a stormwater control plan; repair the existing drainage system; upgrade the landfill cap to federal standards; control and monitor methane and groundwater, and submit a plan to maintain and monitor the site.

Although they have completed interim work, Republic has failed to implement surface drainage controls that would minimize erosion during major storm events; improve the cover to address threats of erosion and infiltration; or install an adequate groundwater monitoring system.

Sunrise Mountain Landfill is unlined and contains more than 18-million tons of waste including: municipal solid waste, medical waste, sewage sludge, hydrocarbon-contaminated soils, asbestos, and construction waste.

EPA grants approval of cleanup measures for waste superfund site in Missouri

Installations of a multi-layered engineered cover and a system of new monitoring wells are among a series of key remedial actions that will best serve to protect groundwater resources and human health at the West Lake Landfill Superfund Site in Bridgeton, Missouri, according to a plan formally approved by EPA.

"We believe it is imperative to move ahead by placing a properly engineered cover on the landfill," EPA Region 7 administrator John Askew said. "The cover would serve as a stable barrier to minimize future exposure to waste material, as the landfill currently has no such protective cap."

The EPA's design process also calls for the installation of a new system of monitoring wells around the site, and for long-term groundwater sampling to occur, with the results of all tests to be made available to the public.

The Agency's next steps for West Lake Landfill will be to work closely with the site's owners and responsible parties as they identify and secure the services of various contractors to develop specific engineering designs, construct the landfill cover, install the monitoring wells, and establish specific schedules and measures for sampling procedures and sharing test results.

Commissioning of new Louisiana cellulosic ethanol facility begun

Verenium Corporation, a pioneer in the development of next-generation cellulosic ethanol and high-performance specialty enzymes, announced that it has begun the commissioning phase at its demonstration-scale cellulosic ethanol facility in Jennings, Louisiana.

"This is a major step forward and a transformational moment for Verenium and the next-generation ethanol industry as we seek commercially-viable alternatives to traditional fuel sources," said Carlos A. Riva, president and chief executive officer of Verenium. "This is a first for the United States and as we take the next step toward commercialization, we are breaking new ground and setting new standards for our industry."

Start-up activities will continue as the facility transitions into a comprehensive commissioning phase, allowing the Company to evaluate its process for making ethanol at scale and validate cost and performance assumptions to prepare for the development of its first series of commercial plants. This phase puts Verenium on track for its goal of beginning construction in the middle of next year (2009) on a 30 million-gallon-per-year commercial plant, which will be the first of its kind, located in the southeastern United States.

"We must assure that this next-generation of ethanol is produced in a responsible manner to minimize the carbon footprint and deliver the energy this country so urgently needs," Riva said. "With this plant moving into operations, we are on the brink of commercialization, on the brink of success."

Verenium's demonstration-scale plant in Jennings is rated to produce 1.4 million-gallons-per-year of next-generation ethanol that uses specialty enzymes and the Company's proprietary technology to convert non-food biomass.

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Clarion County transfer station OK'd by DEP

The Department of Environmental Protection (DEP) has approved the application from Veolia ES Solid Waste of Pennsylvania Inc. to create a municipal waste transfer station in Paint Township, Clarion County.

The permit was issued following the department's technical review of Veolia's application, which examined the design details of the project. In February, DEP finalized the environmental assessment phase of the review and concluded that the known benefits of the project outweigh the known and potential harms.

A significant portion of the municipal waste to be handled at the proposed transfer station would be generated locally. Veolia is requesting an average daily volume permit capacity of 350 tons per day, with a maximum daily volume of 500 tons per day.

Veolia submitted the transfer station application on April 6, 2006, and a public meeting was held August 7, 2007 to review it.

The proposed location of the transfer station was previously a heavy equipment maintenance facility operated by Beckwith Machine Company that will be renovated to suit Veolia's needs.

Hazardous waste laws violated by Massachusetts business

The United States EPA has issued a Complaint and Compliance Order against NuChrome, Inc. for noncompliance and repeated violations of hazardous waste management laws.

NuChrome is a re-plating company located in Massachusetts. NuChrome's replating process generates chromium, nickel and copper sludges, corrosive and cyanide process wastewaters.

EPA's original administrative enforcement action against NuChrome took place in 1999. In that action, EPA alleged that NuChrome violated several federal and Massachusetts regulations pertaining to the management of hazardous waste at NuChrome's facility by failing to safely and properly manage its containers of hazardous waste in accordance with applicable hazardous waste regulations.

NuChrome agreed to resolve the initial action by entering into a settlement that provided for a penalty payment of \$25,000 and the performance of an environmentally beneficial project valued at \$74,000. To date, NuChrome has paid only \$3,000 of the penalty and has failed to perform the project.

A follow-up inspection of the facili-

EPA alleged that NuChrome violated several federal and Massachusetts regulations pertaining to the management of hazardous wastes.

ty in 2004 revealed that NuChrome continued to violate many of the same hazardous waste management regulations cited in the 1999 Complaint. At the time of the 2004 inspection, the perimeter soil at NuChrome's facility was found to be contaminated with chromium.

EPA inspectors returned to NuChrome in 2006 and 2008 and determined that, once again, NuChrome continued to violate several of the requirements that had been cited in the previous inspections. As a result, EPA has ordered NuChrome to immediately address the continued violations of the hazardous waste management regulations.



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EPA agreement outlines cleanup of New Hampshire landfill

A new consent decree for the Dover Landfill Superfund site has cleared the way for continued clean up work and better environmental protection, including groundwater remediation, at the site. The consent decree is subject to a 30 day public review and comment period.

The Dover Municipal Landfill Superfund Site, located in Dover, New Hampshire, is a 50-acre uncapped landfill. Ground water beneath the site has been contaminated with arsenic and organic compounds, and the contamination extends well beyond the landfill boundaries, north and eastward to the Cochecho River and south toward the Bellamy Reservoir.

The landfill began operations in 1961 and closed in 1979. While it operated, Dover Municipality landfill accepted household wastes, as well as wastes from local industries that included liquid hazardous wastes. These liquid hazardous wastes consisted of tanning solutions and chlorinated solvents. The site was placed on the National Priorities List on September 8, 1983.

EPA initially outlined a clean up plan for the site in 1991, which was the basis of a 1993 consent decree with the "potentially responsible parties," all of whom agreed to perform portions of that plan. The 1993 consent decree required the creation of an impermeable cap on top of the 50-acre landfill, but deferred a decision on a ground water remedy until further studies were performed.

Due to the many complexities of cleaning up the site, EPA and the New Hampshire Department of Environmental Services (NHDES) allowed the

responsible parties to consider other remedial options for source control that would protect the public health and the environment while remaining cost-effective.

Based on several years of studies, EPA issued an amended "Record of Decision" (ROD) in 2004 that selected a new source control remedy – to capture high-concentration contaminants in selected hot-spots within the landfill, and to capture and treat dissolved contaminants in ground water along the perimeter of the landfill. The high-concentration contaminants within the landfill will be treated on site. The 2004 Amended Record of Decision retained the ground water remedy from the 1991 Record of Decision, including capturing contaminants in the southern plume and discharging the water to the City's sewer system for treatment. Currently, there are no exposure pathways that pose a hazard to the public or environment. Ground water contamination, however, may pose a threat to public water supplies if it is allowed to continue unchecked.

Since EPA issued the Amended Record of Decision in 2004, the potentially responsible parties have been conducting investigations to accelerate the implementation of the remedy. Portions of the ground water pump and treatment system south of the landfill began operating in April 2008. It is expected that the EPA, NHDES and the potentially responsible parties will continue this collaborative effort to address site contamination and any potential threat to public water supplies.

NSWMA, SWANA issue comment on EPA reporting

In a joint letter to the United States Environmental Protection Agency (EPA), the National Solid Wastes Management Association (NSWMA) and the Solid Waste Association of North America (SWANA) chose to comment on the agency's draft mandatory greenhouse gas (GHG) reporting and its potential impact on municipal solid waste (MSW) landfills. As the EPA proceeds with requirements identifying reporting sectors in this rulemaking process, NSWMA and SWANA requested the following points be considered:

- The solid waste sector has been successful in substantially reducing greenhouse gas emissions.

- A new protocol for estimating fugitive landfill emissions should be established.

- Carbon sequestration should be accounted for in estimating greenhouse gas emissions of individual landfills.

- Strong enforcement authorities make third-party verification unnecessary.

- Biogenic greenhouse gas emissions should not be a mandatory reporting element of a federal program.

The EPA greenhouse gas reporting would mandate the reporting of greenhouse gas emissions among all industries, including municipal solid waste, above the EPA's predetermined threshold. The EPA is still in the process of developing the rule's guidelines, and may or may not respond to the comment.

DEP grants initial approval for Elk County landfill expansion

The Department of Environmental Protection (DEP) has approved the environmental assessment portion of an application by Veolia ES Greentree Landfill to expand its municipal waste landfill's capacity in Fox Township, Elk County.

In approving the first phase of the application, DEP concluded that the known benefits of the project outweigh the known and potential harms. The decision allows the landfill expansion permit application to proceed to the technical review phase, which will examine all of the design details of the project.

Veolia proposes to expand the existing disposal area by an additional 104 acres and increase the overall permit area from 986 acres to 1,148 acres. The new disposal area would be adjacent to the current disposal area.

The application also proposes to increase the total height at which waste can be disposed and covered on portions of the existing disposal area.

Under Veolia's proposal, the landfill would continue to use the current permit average volume of 5,500 tons/day and maximum volume of 6,000 tons/day. Based on the permit average, the proposed expansion would provide approximately 10 years of additional disposal capacity.

Veolia submitted the permit application on February 20, 2007. The facility has been in operation since 1986.

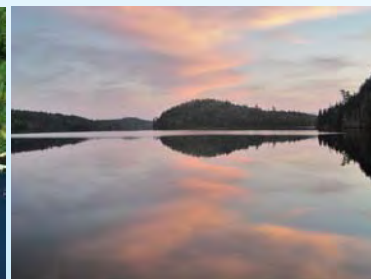


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C&D Buying

Continued from Page 1

of investor relations.

"We are currently buying fewer trucks than in a typical capital cycle because we believe that innovation in hybrid truck technology will rapidly change the truck market," he says, adding that Casella Waste has made a commitment to deploy hybrid trucks.

Casella Waste, based in Rutland, Virginia, set an aggressive company-wide emission-reduction target of 10 percent over 7 years from 2005 to 2012.

The solid waste company deployed its first hybrid truck this year for an organics recycling route in the Burlington market. Colleta expects the hybrid truck, an International DuraStart Hybrid diesel electric, to reduce fuel consumption by 30 to 40 percent and reduce gas emissions by 65 percent, compared to a normal truck.

"We plan to roll out this technology to additional locations," Colleta says.

Tom Vatter, vice president of sales and marketing at truck manufacturer Autocar LLC in Hagerstown, Indiana, says he is seeing more companies delay purchases.

"We expect the economy will slow purchases down for the rest of 2008," Vatter says. "Hopefully, by the beginning of 2009, the economy will improve and companies will continue their 2009 buying plans to get ready for 2010 emission standards."

Brian Butler, an analyst who covers the solid waste sector for Friedman Billings Ramsey & Co. Inc. in Arlington, Virginia, says truck manufacturers are looking to benefit from some pre-buys in front of the 2010 emission standard change.

Manufacturers of containers for the solid waste industry are feeling the slow down much more than truck manufacturers, Butler says. "Reduced volumes have decreased the need for new containers," he says "And increased prices due to the higher price of steel is making many haulers focus on repairing old containers and making them last longer."

Stewart Scharf, an analyst with Standard & Poor's Corp. in New York, says cost control is the focus of many solid waste companies wanting to continue to generate strong cash flow. This means focusing on repair and maintenance of trucks.

"By keeping trucks in good condition and replacing an aging fleet, solid waste haulers can reduce the frequency of out-of-service vehicles and repair costs."

This does not mean, however, foregoing new trucks. "With fuel costs skyrocketing, companies are eager to replace old trucks with new more fuel-efficient ones," he says.

An elderly woman and her husband were sitting on their porch when suddenly the woman said, "Hey pa, why don't you run to the corner and get us some ice cream?" He agreed but on his way out, she nagged, "Make sure to write it down since you always forget!" Ignoring her, he headed for the corner without a note. Upon his return he handed her a cheeseburger. Unwrapping it resignedly, the old lady sighed and said, "Dang it, Pa. I knew you'd forget. I thought I told you to get mustard on mine!"

Clean Energy to fuel municipal waste fleet

Clean Energy Fuels Corp. has been awarded the contract by the Town of Brookhaven, New York, to build and operate a compressed natural gas (CNG) fueling station and provide CNG fuel for more than 75 waste trucks serving the town's 117,000 homes.

This initiative over the first seven years will displace 4.9 million gallons of imported diesel and reduce GHG's by over 20%.

"Brookhaven becomes the newest municipality on Long Island to adopt a clean waste management strategy by requiring the use of CNG trucks by its carters," said Andrew J. Littlefair, Clean Energy president.

The term of the contract is for 10 years with two 5-year renewal options and includes preferential fuel prices for the town and for 13 contracted refuse and recycling collection carters for seven years. The station will be built on a 1.25-acre site at the town's landfill. Fueling is scheduled to begin on January 1, 2009.

Brookhaven estimates that this initiative over the first seven years will displace 4.9 million gallons of imported diesel fuel, reduce nitrogen oxide emissions by 304 tons and particulate matter by 12 tons, and reduce greenhouse gases by over 20%.

The natural gas used to make CNG will be supplied to the station by the regional gas utility, National Grid, which will provide a new pipeline extension to the fueling station site in order to deliver the volume of gas required for the trucks.

United States seeks recovery from Waste Management

A proposed consent decree in *United States v. Waste Management of Illinois, Inc. et al.*, Civil Action No. 06cv6880, was lodged with the United States District Court for the Northern District of Illinois.

In this cost recovery action brought pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. 9607, the United States sought recovery of approximately \$1.15 million in unreimbursed past response costs and prejudgment interest incurred by the United States Environmental Protection Agency at the H.O.D. Landfill Superfund Site located near Antioch in Lake County, Illinois. Under the proposed consent decree, Waste Management of Illinois, Inc., on behalf of itself, Morton International, Inc., and Rohm and Haas Chemicals, LLC will pay a total of \$900,000 to the Hazardous Substance Superfund.

Heil donates Half/Pack, raises \$117,383 for EREF Research

Roy Svehla, group manager, fleet maintenance, for Allied Waste Industries, made the winning bid of \$224,000 to add a new Heil Half/Pack® front loader to Allied Waste's Lafayette, Indiana, fleet at the Environmental Research and Education Foundation's (EREF) 14th Annual Refuse Equipment Auction held during WasteExpo 2008.

Heil donated the Half/Pack body portion of the vehicle (which was mounted on a Mack chassis) to the EREF for the auction.

The auction is one of the industry's largest fund-raisers, bringing in millions of dollars to support the EREF's work to develop and evaluate new approaches to managing solid waste. Heil has donated a body to the auction for the last 13 years. Allied Waste Industries also bought the Half/Pack donated by Heil in 2007 for a record-setting \$245,000 — netting the EREF \$137,663. In total, Heil's donations to the auction have raised \$798,520 for the EREF's municipal solid waste research and education projects.



Pictured with the Heil Half/Pack are the following Allied Waste personnel: (top) Charity Dasuqi, (bottom, left to right) Robert Bulthuis, regional maintenance manager, Midwest Region; Bill Harrison, regional maintenance manager, West Region; Matt Wood, regional maintenance manager, South Region; Roy Svehla, senior manager, fleet maintenance; Larry Allen, regional maintenance manager, East Region.

Perma-Fix to sell Tulsa facility for \$1.5 million

Perma-Fix Environmental Services, Inc. announced a definitive agreement to sell substantially all of the assets of Perma-Fix Treatment Services, Inc., one of the Company's Industrial Segment facilities located in Tulsa, Oklahoma, to A Clean Environment Company, Inc. (ACE) for approximately \$1.5 million in cash, subject to certain working capital adjust-

ments and the assumption of certain liabilities.

ACE is an environmental services company located in Wilson, Oklahoma. The completion of this transaction is subject to a number of conditions being met. The Company expects to complete the sale of its Tulsa facility during the second quarter of 2008.



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Republic Services and Allied Waste discuss merger

Republic Services, Inc. and Allied Waste Industries, Inc. confirmed that the two companies have entered into discussions regarding the possibility of a business combination, which has the potential to be a \$6.5 billion merger.

Allied Waste Industries, Inc. is the second largest trash hauler in the United States and Republic Services, Inc. follows closely as the third largest trash hauler.

The companies are contemplating a transaction in which Allied Waste shareholders would receive 0.45 shares of Republic Services common stock for each share of Allied Waste common stock. There can be no assurances that any transaction will occur at these terms or at any terms as a result of these discussions.

In order to protect the interests of both companies' employees, shareholders and customers, the two companies will not comment further on these discussions until there are material developments.

Waste Management joins Habitat for Humanity as national partner

Habitat for Humanity International announced a \$1 million partnership with Waste Management to further Habitat's mission of building decent, affordable housing.

Waste Management will provide monetary support, in-kind donations and a variety of waste disposal services to Habitat affiliates across the United

States and Canada.

Along with financial support from Waste Management, the three-year partnership will support Habitat affiliates' local building projects by providing a variety of industry specific services such as disposal and waste collection, construction and demolition recycling and loading services.

Pennsylvania DEP to hold public hearing on ERSI landfill application

The Pennsylvania Department of Environmental Protection (DEP) will hold a public hearing in July to accept testimony on an application by Environmental and Recycling Services Inc. (ERSI) to expand the landfill in Taylor Borough, Lackawanna County.

The application requests approximately 10 acres of new landfill area. Another 50 additional acres would overlay the existing construction and demolition waste landfill and the former Amity Landfill.

The department requests that those wishing to testify at the hearing submit a written notice of intent to the Department of Environmental Protection, 2 Public Square, Wilkes-Barre, PA 18711-0790. All correspondence should be sent to the attention of "ERSI Landfill Public Hearing."

DEP will accept notices up to the day of the hearing.

Written copies of oral testimony are requested. Relinquishing time to others is prohibited.

UK operators found guilty of dumping

Two men who had operated a highly organized criminal illegal waste dumping operation were handed prison sentences. Patrick Joseph Anderson and James Gerard Kelleher pleaded guilty to the charge of conspiring to unlawfully deposit controlled waste on land. Anderson was sentenced to 22 months in prison and Kelleher was sentenced to 14 months in prison at Inner London Crown Court. Both will serve half of their sentence in jail with the remainder on licenced release.

Paul Leinster, chief executive at the Environment Agency, said, "Today's case is the culmination of one of the most intensive investigations carried out by the Environment Agency into the illegal disposal of construction and demolition waste. It sends out a strong and clear message to those who think they can profit from illegal waste dumping that the Environment Agency is watching and will take every step possible to protect the environment and bring offenders to justice."

This case highlights many firsts for the Environment Agency including:

- The first conspiracy charge it has taken through to court – allowed the Environment Agency to secure a stronger conviction and highlights that the defendants went to great lengths to conceal their crimes.

- The first use of a European Arrest Warrant to bring back a defendant from abroad to face charges – it was used to bring Anderson back to face justice in the UK after having left for Ireland.

As a result of a three-year investigation codenamed 'Operation Huron', the Environment Agency found that between January 2003 and June 2004, Anderson and Kelleher masterminded an elaborate operation in London and Essex of illegally dumping over 14,600 tons of waste - equivalent to around 750 truck loads - on at least 15 different sites.

The defendants created legitimate-appearing businesses, setting up a bank account using an assumed name, 'Michael Ryan', through which they laundered the money gained from their illegal waste activities. They used this name and others on official documentation such as vehicle ownership and insurance documents, and also registered several mobile phone accounts in these names to divert attention away from themselves.

Many of the sites, which included both local authority and privately owned land, had been entered unlawfully. In some cases security chains had been cut to gain entry and the defendants then re-secured the sites with their own locks and chains to keep control of the sites. Around £340,000 has been spent on cleaning up these sites – some of which was from the public funds as well as the private landowners.

The illegally dumped waste ranged from a few loads to thousands of tons. Earthmoving equipment was brought onto sites to level off the waste to increase capacity.

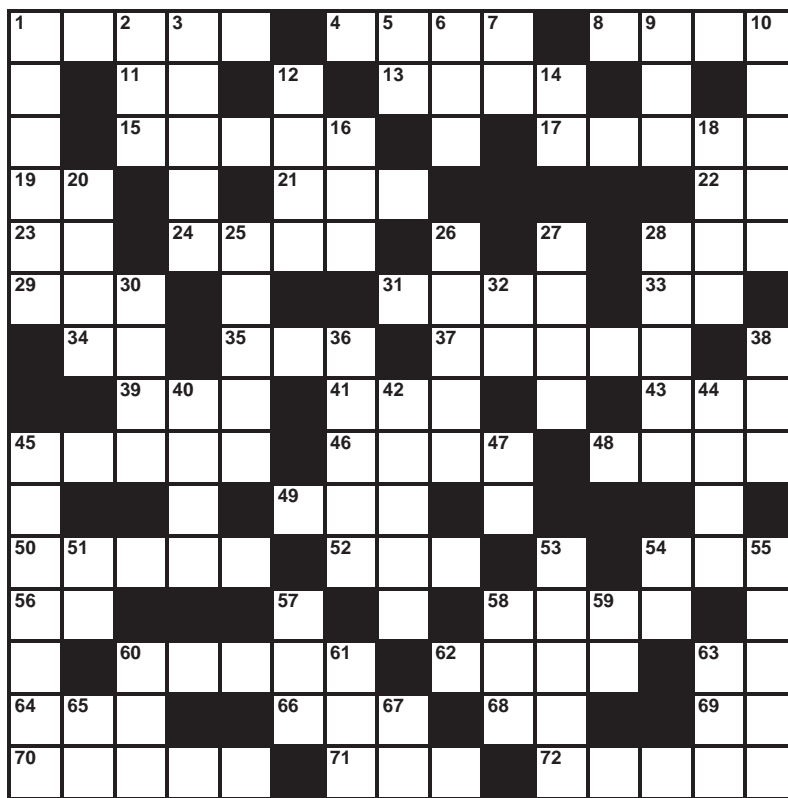
MONTHLY CROSSWORD

BY Myles Mellor

SOLUTION IS FOUND ON PAGE B7

ACROSS

- San ____, International Tire Conference location
- California and Baja California are leading the way to sign this Initiative
- Recycling cart color
- Long range, briefly
- Com ____, aka brown manure
- Recycle ____, competition whose goal is to see which college can collect the most recyclables in 10 weeks
- David ____, Ziggy Stardust
- Love message, when repeated
- Bro's opponent
- Capital initials
- Vital card
- People referred to
- Rainy
- __ scrap, material which is discarded during a manufacturing operation when it cannot be fed back into the operation
- "Fall on __ ears"
- Top grades
- Manner indicated
- Once around the track
- Adds on
- Baseball score
- U.S. car club
- "__ the season"
- Program that encourages consumers to recycle their magazines
- You want to reduce papers to this in order to create new paper
- __anol, this gas has a high energy density
- Energy saving light, abbr.
- Use again, with re
- Tear
- Instant messenger's "Oh my gosh!"
- Either's partner
- __cycling, the recycling of a material into a material of lesser quality
- The substance which results from decay of plant or animal matter
- Compacted and bound cube of recycled material
- Arts Degree
- Self-esteem
- The amount of oxygen needed for aerobic microorganisms to function in organic-rich water
- __-metal, can with a steel body and an aluminum lid
- Island
- __ plastics, a cup, for example
- Chicago Recycling Coalition
- Churchill ____, Kentucky Derby site that has started a recycling initiative



DOWN

- Highly toxic, cancer-causing chemical
- Shady tree
- Bin __ program, this program is designed to help communities to expand their recycling programs and to promote recycling of used bottles and cans
- Internet address type
- Dispute
- It is, in Madrid
- __ grade paper, less valuable types of paper
- __rodes, fuel cells have two of these
- Waste ____, RecycleMania's affiliate program
- Tablespoon, abbr.
- Instant communicator on AOL
- The __ of March
- Lyrical poems
- Twisted shape
- One type of recyclable
- Family of inert and easily liquified chemicals
- Unwanted material
- Garden crawler
- Airline, for short
- America's single largest export
- Fly ____, residue left after trash is burned in an incinerator
- Bottle ____, a law requiring deposits on beverage containers
- Video's alternative
- Newspaper article
- iMRF part
- Circumference ratio
- 365 days, abbr.
- OSW part
- Atop
- "Recycle: Be a __ act!"
- Tavern
- Wipe on
- __, the people!
- Harley
- Humanities major, for short
- Recycle place
- Soldier
- Medical man

EPA settles hazardous waste case against Leed Foundry

The United States Environmental Protection Agency (EPA) announced that Leed Foundry Inc. has agreed to pay a \$25,000 penalty to settle alleged violations related to hazardous waste management and storm water discharges at its foundry in St. Clair, Pennsylvania. This settlement follows a precedent-setting ruling by EPA's Environmental Appeals Board that the foundry's "baghouse dust" is subject to federal hazardous waste regulations.

In a September 2004 complaint, EPA cited the company for improper storage of its baghouse dust, which contained toxic concentrations of lead and cadmium. This dust was generated by furnace operations at the foundry, which manufactures grey iron castings such as storm sewer gratings and manhole covers. Approximately 514 tons of the dust removed from the baghouse - an air pollution control device - was stored in a pile, resulting in some dust releases to the surrounding environment.

EPA's complaint alleged violations of the Resource Conservation and Recovery Act (RCRA), which governs the treatment, storage, and disposal of hazardous waste. RCRA is designed to protect public health and the environment, and avoid costly cleanups, by requiring the safe, environmentally-sound storage and disposal of hazardous waste. In the same case, the EPA administrative law judge had previously assessed a penalty against the company for Clean Water Act violations related to storm water discharges from the facility. That decision was not appealed and the penalty is included in the settlement referred to above.

The company challenged EPA's

authority to regulate grey iron foundry waste, arguing that this substance is covered by the "Bevill Amendment," a RCRA provision which exempts certain fossil fuel combustion wastes from hazardous waste regulation. On February 20, 2008, EPA's Environmental Appeals Board (EAB) reversed an administrative law judge ruling in favor of the company. The EAB agreed with federal court decisions interpreting the Bevill Exclusion to be limited to high volume and low toxicity waste. The board deferred to EPA's determination that grey iron foundry waste is sufficiently toxic to warrant regulation under RCRA, noting that Leed Foundry's waste exceeded regulatory standards by 10 times for cadmium and 185 times for lead.

After the EAB ruling, Leed Foundry cooperated with EPA in negotiating a settlement of this lengthy litigation. The company has signed a consent agreement, which will become effective on June 23, 2008. This agreement requires the company to submit a cleanup plan to the Pennsylvania Department of Environmental Protection for the former storage area of the toxic baghouse dust; and submit a revised Preparedness, Prevention, and Contingency plan including the monitoring of flow and constituents related to the facility's storm water discharge permit. Leed Foundry is also treating the baghouse dust to prevent it from exceeding RCRA's toxicity standards.

As part of the settlement agreement, the company has neither admitted nor denied liability for the alleged violations, but committed to comply with applicable requirements.

Dean develops animal waste digester

Dean Foods Company has begun development of an anaerobic digester on the Big Sky Dairy farm near Gooding, Idaho. The anaerobic digester will capture animal waste from the farm's approximately 4,700 dairy cows, reducing both odors and emissions of methane gas into the atmosphere. The resulting captured methane will then be used to generate electricity. The project, which is expected to be operational by early 2009, will be owned and operated by a partnership between Dean Foods and AgPower Partners, LLC which consists of an affiliate of Andgar Corporation, an affiliate of GHD, Inc. and Cenergy USA, Inc.

The Big Sky Dairy digester project is expected to have generation capacity of more than one megawatt per hour of renewable "green" power, which will be sold into the local power grid and should provide enough renewable energy annually to power approximately 650 homes. In addition, the digester will produce a sanitary fiber by-product that can be used as clean animal bedding or as organic soil enhancement.

InEnTec cancels permits for California waste recycling facility

InEnTec Medical Services LLC, a subsidiary of InEnTec LLC, plans to cancel its project to construct a Plasma Enhanced Melter (PEM) and power generation facility near the city of Red Bluff in Tehama County, California. The facility would have recycled medical waste and other non-hazardous waste materials into clean electric energy. Citing changing business strategies and market conditions, the company will focus its efforts on advancing several other regional opportunities in the United States.

InEnTec Medical Services currently has both a land use permit issued by the Tehama County Planning Commission and an air permit issued by the Tehama County Air Pollution Control District. The company has sent a letter to County officials cancelling both permits.

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Solution for crossword on page B6.

S	N	M	O	D	C	R	C	D	I	G	I	R
S	I		I	B	I	D	O	B	O		O	E
B	A		E	L	E	B	A	S	U	S	H	V
L	N	W	O	D	O	P						R
G	M	O	S	P	R	I	P	E	L	C	Y	C
E			I	D	L	E	D	L				E
H	E	W		L	P	L	P	X	I	M	R	E
S	T	S	A	V	A	V	A	I	B	R		
A	S	K	A	C	T	A	P	L	A	P	S	O
S	V	A	F	D	E	A	F	E	W	E	N	
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E												D

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